ELITE 64 Version 2

64 Zone Wired/Wireless Control/Communicator

Arrowhead

Alarm Products Ltd

Installation & Programming Guide

Proudly Designed and Manufactured in New Zealand

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To the best of our knowledge the information contained in this manual is correct at the time of printing. Arrowhead Alarm Products Ltd reserve the right to make changes to the features and specifications at any time without notice in the course of product development..

Designed & Manufactured in New Zealand to Meet NZS:4301/93

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INTRODUCTION

The ELITE 64 alarm control panel has been designed to provide the most requested features for both the installer & the end-user. These features include ease of installation, ease of programming and user friendly operation all in a package which is reliable, functional and attractive. The ELITE 64 consists of a central control unit plus up to two 32 zone expansion modules. The central control unit can monitor up to 64 zones. These zones can be a mix of hardwired or wireless devices (wireless devices connect using the optional receiver). The wired detectors connect via the two 32 zone hardwired expansion modules. The two hardwired expansion modules and radio receiver connect to the central control unit via the keypad buss.

Utilising many years of experience in the security industry and implementing valuable feedback, we are proud to provide you with a new generation of alarm controller. The ELITE 64 is a New Zealand designed and built product which brings you the quality and features which you deserve at an affordable price. In addition to the advanced design, only the highest quality components have been used in the production of this panel to ensure the highest degree of reliability.

This manual will guide you through the installation and programming of your alarm panel. For additional information regarding the day to day operation of the panel please refer to the enclosed “User’s Guide”.

PACKAGE CONTENTS

The Arrowhead ELITE 64 central control unit should contain the following items;

- 1 x ELITE 64 controller PCB
- 1 x Polycarbonate housing
- 1 x 17 volt 1.4a mains transformer
- 1 x Cabinet hardware accessory pack including,
  - 1 x Cabinet tamper switch
  - 1 x Battery lead set
  - 2 x Cabinet lid screws
  - 2 x 2k2 (red, red, red) end of line resistors
- 1 x ELITE 64 Users Guide

If any of these items are missing from this package, please contact the Distributor where you purchased the equipment.

The Arrowhead ELITE 32EX, 32 zone expander unit should contain the following items;

- 1 x ELITE 32EX controller PCB
- 1 x Polycarbonate housing
- 1 x 17 volt 1.4a mains transformer
- 1 x Cabinet hardware accessory pack including,
  - 1 x Cabinet tamper switch
  - 1 x Battery lead set
  - 2 x Cabinet lid screws
  - 34 x 2k2 (red, red, red) end of line resistors
  - 34 x 4k7 (yellow, violet, red) end of line resistors

If any of these items are missing from this package, please contact the Distributor where you purchased the equipment.

INPUT CONFIGURATIONS (ZONE WIRING DETAILS)

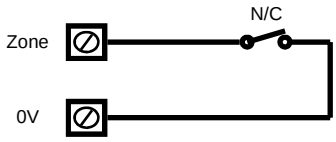
The ELITE 32EX Expander Board has 32 programmable analogue inputs.
The configuration of each input is programmed via the zone groups at addresses P471E—P490E. Through the zone group programming the hardwired zones can be configured to one of four settings;

Type 1	Single Zone Short circuit input No End-of-Line (EOL).
Type 2	Single Zone 2k2 End-of-Line (EOL) with No Tamper.
Type 3	Single Zone NO (Normally open contact) with Tamper.
Type 4	Single Zone NC (Normally closed contact) with Tamper

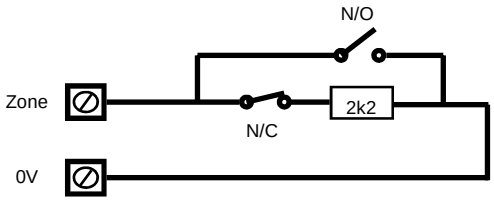
The following table shows the end-of-line resistor configurations. The option numbers referred to in the “Zone Type” column are the options at Zone Group “D” (P471E—P490E).

Zone Type	Zone Wiring	Tamper
Type 1 Option 1 =**On**, Option 2 = **Off**, Option 3 = **Off**	Loop (Short circuit)	None
Type 2 Option 1 =**On**, Option 2 = **On**, Option 3 = **Off**	2k2	None
Type 3 Option 1 =**On**, Option 2 = **On**, Option 3 = **On** Option 7 = **Off**	4k7 Normally Open Contact	2k2
Type 4 Option 1 =**On**, Option 2 = **On**, Option 3 = **On** Option 7 = **On**	4k7 Normally Closed Contact	2k2

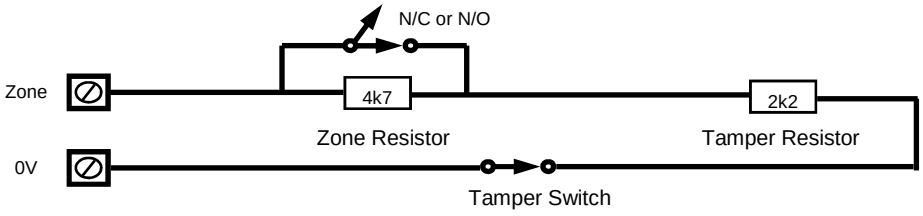
Type 1: Short circuit loop, No EOL



Type 2: 2k2 EOL, No Tamper



Type 3 & 4: 2k2 & 4k7 Configuration for Alarm & Tamper monitoring (contacts can be N/C or N/O)



INPUTS Cont.

TAMPER - A 24Hr tamper circuit is available for monitoring tamper status of the control cabinet and external satellite sirens, etc. The tamper circuit is programmable to be either Normally Closed loop or 2k2 EOL supervision (P721E5E). The tamper circuit must be terminated with an end-of-line resistor if 2k2 EOL supervision is selected. The tamper alarm events are fully programmable.

AC - Connect the two low voltage wires (no polarity) from the transformer to the terminals marked AC on the ELITE 64 or ELITE 32EX PCB's. The cabinet includes a transformer rated at 1.4 amps at 17 volts AC. The transformer also incorporates an inbuilt thermal protection fuse.

EARTH - Connect the mains earth to the terminal marked with the earth symbol (beside the two AC terminals) on the main PCB.

BATTERY - Connect a sealed lead acid rechargeable 12V DC battery to the battery terminals via the red and black battery leads supplied. Battery charge current at these terminals is limited to a maximum of 300ma.

LINE IN - These terminals are used to connect the ELITE 64 to the incoming telephone line from the street. The Dialler uses this line for reporting alarm events.
LINE OUT - These terminals are used to connect telephones and other communication equipment to the incoming phone line via the ELITE 64 controller. The telephone line is passed through the ELITE 64 controller to ensure that the line is available to the controller when it is required.

OUTPUTS (ELITE 64 Board)

12 VOLT OUTPUTS - There are three 12V DC outputs available on the ELITE 64 PCB. They are protected by a single self resetting thermal fuse. These outputs are marked 12v and 0v (or POS & NEG at the keypad buss). A maximum total load of 1 amp may be drawn from these terminals.

OUTPUT 1 - This fully programmable, high current, open drain (high-going-low) FET output is capable of switching up to **1.5A @ 12V DC.** Output 1 can also be programmed as a siren output at address P742E Option 5.

OUTPUT 2 - This fully programmable, high current, open drain (high-going-low) FET output is capable of switching up to **1.5A @ 12V DC.**

OUTPUTS 3, 4, 5, 6, 7 & 8 - These outputs are low current, open drain (high-going-low) FET outputs capable of switching no more than **500ma**. Like Outputs 1 & 2 they are fully programmable.

OUTPUT 8-Relay - This output drives the both the FET, described above, plus the on-board relay. The "common" terminal of the relay is connected to the three way jumper situated beside the relay (see drawing on page 8). If the jumper is not connected, the "common" terminal is "Clean" (has no voltage on the contact). If the jumper is on the centre and lower position the "common" terminal is connected to the OV. If the jumper is on the centre and upper position the "common" terminal is connected to the +12V supply.

COMMUNICATION PORTS

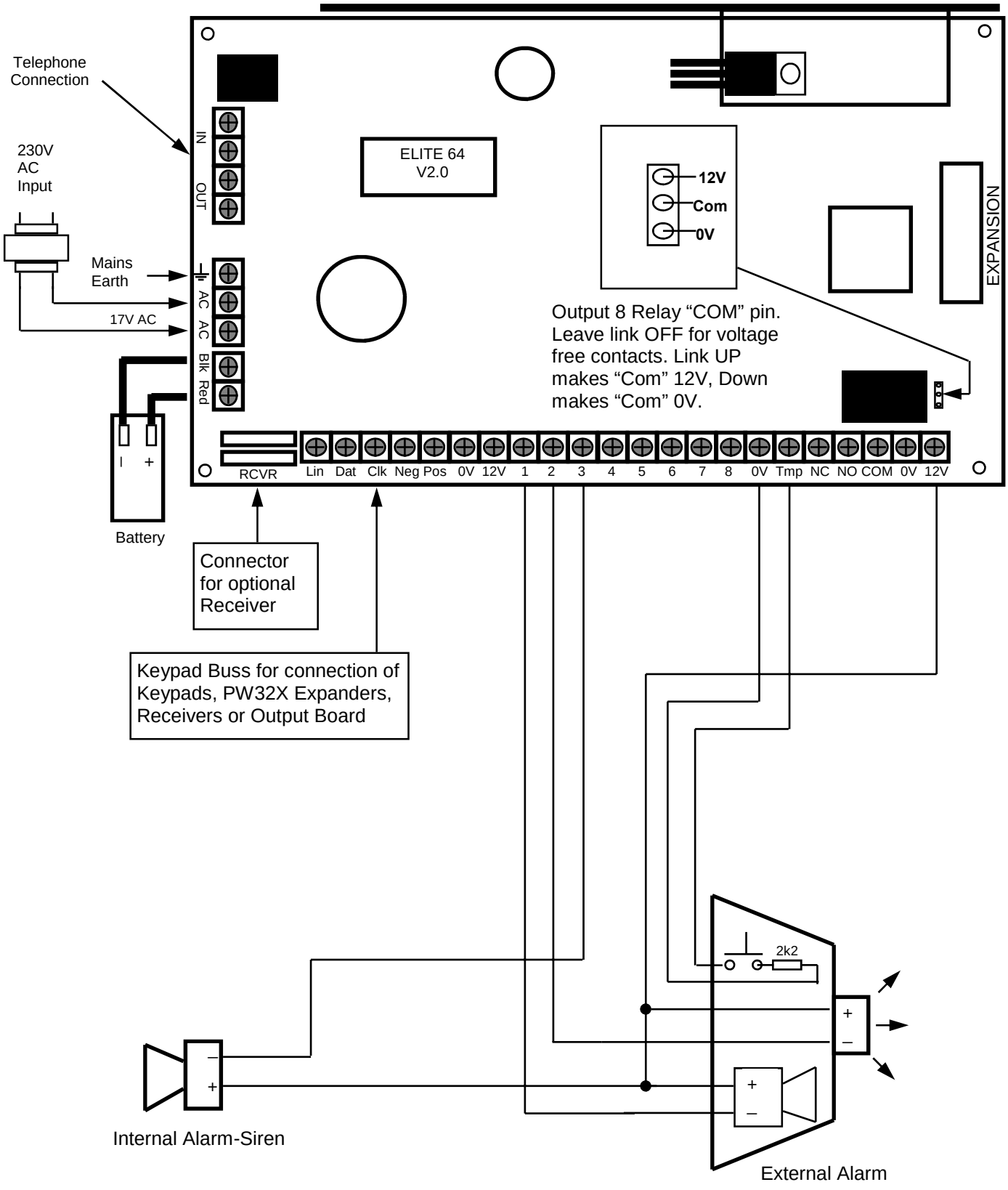
KBD Connector (white 5 way connector) - A local LCD keypad can be plugged into this connector to assist with programming.

RCVR Connector (white 5 way connector) - The optional Radio Receiver can be mounted inside the ELITE 64 cabinet and connected to the panel using the supplied cable and the connector labelled "**RCVR".**

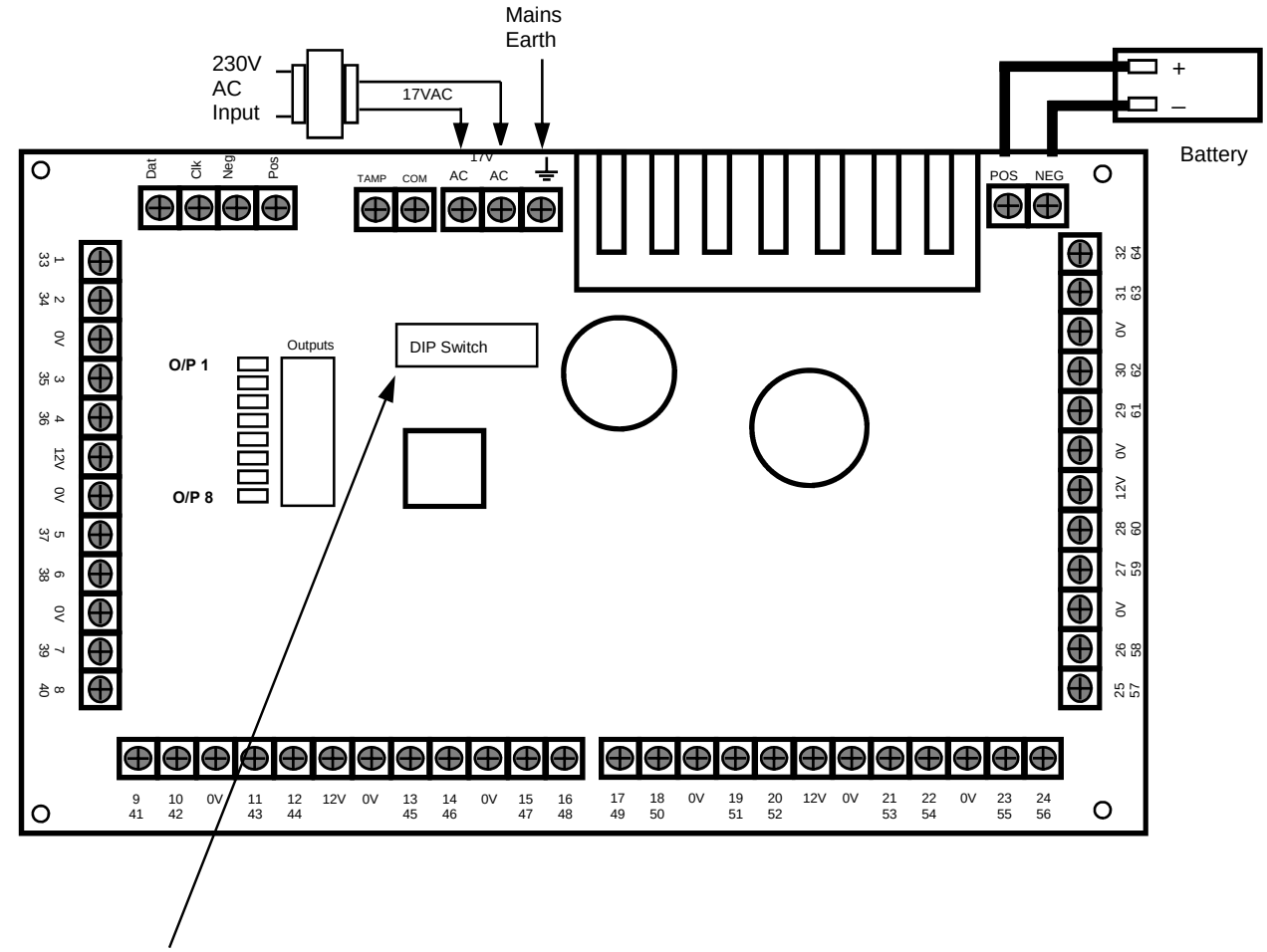
KEYPAD PORT - The terminals marked *POS, NEG, CLK, DAT & LIN* are for the connection of keypads, receiver cards and the ELITE 32EX expanders as required. There is also a relay output board with 4 relays that can be connected at this point. The LIN terminal connects the listen-in feature to the keypad buzzer for testing of the on-board dialler.

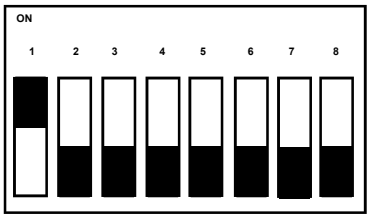
SERIAL PORT - The serial port is for the connection of the RS232 serial board or the DTU (data transfer) board. The optional Voice board is also installed via this connector. The serial board allows for printing of the 255 event buffer to a serial printer or for PC direct up/down load connection. The DTU board allows program back-up and re-instatement. The Voice board allows for Alarm reporting with Voice messages and remote control of the control panel using a Touchtone (DTMF) telephone.

ELITE 64 PCB WIRING INSTRUCTIONS



ELITE 32EX PCB WIRING INSTRUCTIONS





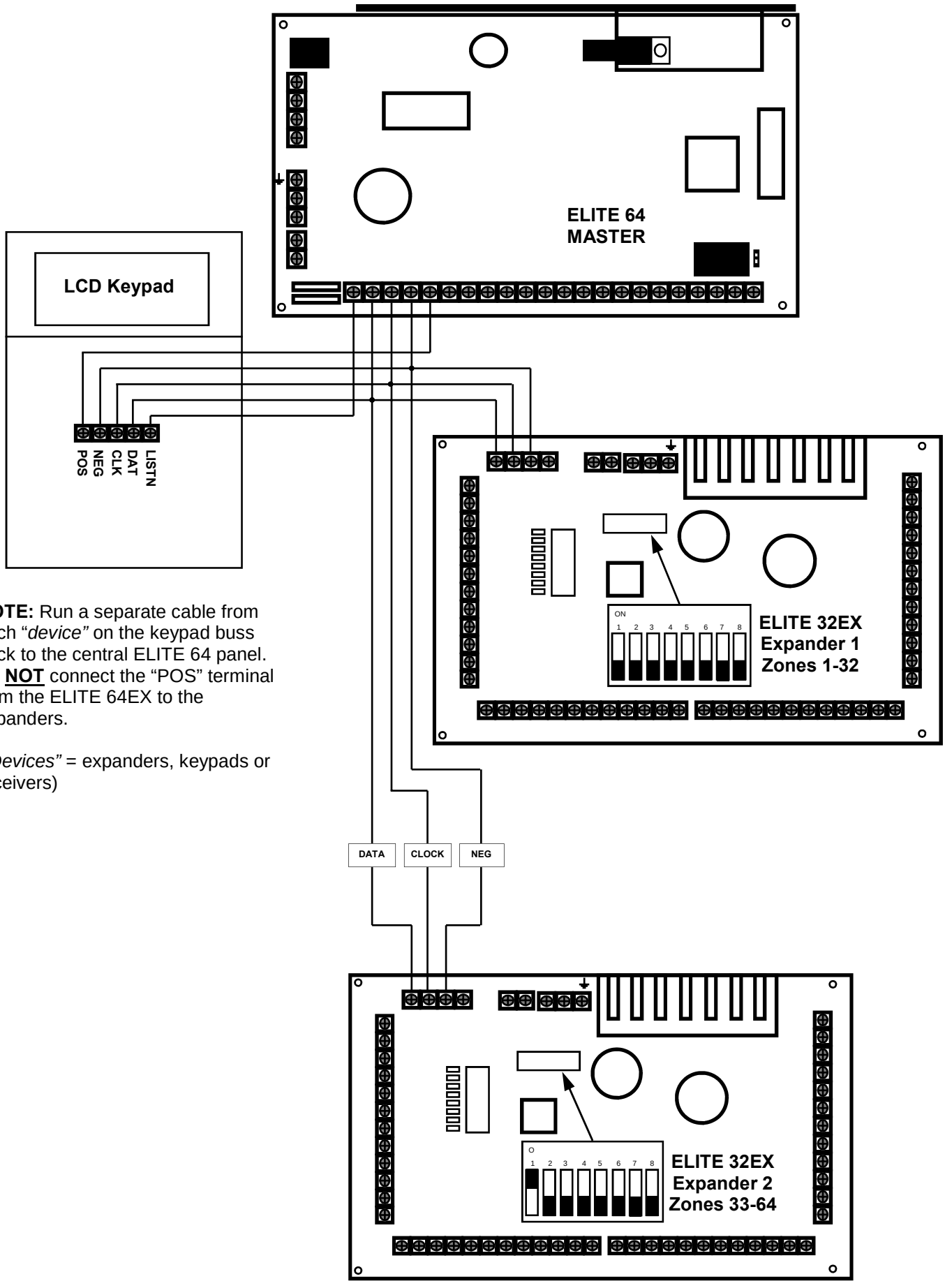
DIP switch 1 OFF = EX # 1
DIP switch 1 ON = EX # 2

Expander # 1 (EX # 1) = Zones 1-32
Expander # 2 (EX # 2) = Zones 33-64

(Diagram above shows Board set to EX # 2)

DIP switch 2 OFF = Outputs Not Available
DIP switch 2 ON = Outputs Available on "Outputs" connector.
On-Board LED's will also follow the Output state (ie LED ON=Output ON). For these LED's & Outputs to work Option 4 at P742E must be ON.

SYSTEM WIRING INSTRUCTIONS



NOTE: Run a separate cable from each "*device"* on the keypad buss back to the central ELITE 64 panel. Do **NOT** connect the "POS" terminal from the ELITE 64EX to the expanders.

("*Devices"* = expanders, keypads or receivers)

ELITE 64 LCD KEYPADS

LCD KEYPADS

The ELITE 64 must have at least one LCD Keypad connected to the panel to display the status of all 64 zones. Up to 8 keypads may be connected to the panel, each with a different keypad address number.

The LED indicators are used to display system conditions such as “Trouble” alarms and “Bypass” active. They also indicate armed status of the panel and if all zones are in the clear “Ready” state prior to arming.

KEYPAD TAMPER (wrong code alarm)

A wrong code or ***Keypad Tamper*** alarm is generated by the ELITE 64 after 4 consecutive invalid code entries. A local alarm condition will be created that may also be reported to a monitoring company via the dialler. Entry of a valid user code will reset the Keypad Tamper alarm, however, the alarm event will be written into memory and the keypad will display “New Event” indicating the presence of a new memory entry.

LCD QUICKVIEW MODE

If any zones are unsealed when disarmed the LCD keypad will scroll through each unsealed zone displaying the 16 character name for each zone. If a number of zones are unsealed simultaneously it can take sometime for the display to show all of the unsealed zones.
By pressing the <ENTER> button when zones are unsealed the keypad will enter the “Quick-view” mode. When in “Quick-view” mode, each unsealed zone is displayed as a single two digit number eg “01 05 10”. Up to 5 unsealed zones maybe displayed at one time. If more than 5 zones are unsealed at the time the display will scroll to the next bank of 5 zones so the user can see quickly which zones are unsealed. To exit “Quick-view” mode you simply press the <ENTER> button again or the keypad will time out automatically in approximately 30 seconds.

TOGGLE CHIME MODE ON/OFF

On the Crow LCD Keypad there is a “CHIME” button. Pressing and holding that button for two seconds will toggle Chime Mode from On-Off or Off-On.
On the AAP LCD keypad, there is no chime button so the Control & Program buttons are used.
By pressing and holding the <CONTROL> button then within 2 seconds also pressing the <PROGRAM> button, you will toggle Chime Mode from On-Off or Off-On.

LCD KEYPAD INSTALLATION

INSTALLATION

Separate the two keypad halves of the **Arrowhead LCD Keypad** by carefully inserting a small screwdriver into the release slots on the bottom edge of the keypad front half and applying a gentle pressure. This will release the bottom edge of the housing enough for you to unclip the top.
To separate the two keypad halves of the **Crow LCD Keypads**, unscrew the fastening screw at the bottom of the keypad.
Screw the base to the wall using the mounting holes provided. These holes will match the standard single switch plate spacing. Ensure the base is mounted right side up. It is marked with the word "TOP", on the Arrowhead keypad base, or the screw should be at the bottom on the Crow keypad base. When fixing the base to the wall make sure the top of the screw heads will not touch or short out the underside of the PCB when the top half of the keypad is reinstalled. Bring the cables through the centre of the base.

Connect the 4 wires to the 5 way terminal block on the rear of the keypad PCB making sure to match the cables up with the terminals as marked on the control panel's keypad port. The 5th wire is an optional “Listen-in“ connection. It is connected from the "LIN" terminal of the keypad to the "Lin" terminal of the panel keypad port. With the Listen-in wire connected the user to hear the call progress during dialling at the keypad (provided the desired program options at address P175E 6E are turned on).

Once the cables have been terminated clip the front half of the keypad onto the base.

The maximum recommended cable distance using standard 0.2mm security cable is 50m. Cable runs exceeding this distance may require 0.5mm cable. Always use good quality cable. Some installations may require CAT5 data cable to ensure data integrity in noisy sites.

LCD KEYPAD ADJUSTMENTS

ADJUSTING THE LCD KEYPAD BACKLIGHTING

The user can independently adjust the backlight level of the LCD display and the Keypad Buttons from off to on with 16 steps in between. The Buttons used for these special functions vary depending on the LCD keypad. There are two types of LCD keypad that can be used, the “AAP” keypad and the “Crow” keypad. The Crow keypad can be identified by the extra buttons “A”, “B” & “CHIME”.

To **increase the AAP LCD backlight** level Press “CONTROL” followed within 2 seconds by “ARM”. By holding down the “Control” button and repeatedly pressing the “ARM (Left Arrow)” button you can increase the LCD backlight level to the maximum.
To **reduce the AAP LCD backlight** level Press “CONTROL” followed within 2 seconds by “PANIC”. By holding down the “Control” button and repeatedly pressing the “PANIC (Right Arrow)” button you can decrease the LCD backlight level until it is off.

To **increase the AAP Keypad Button backlight** level Press “CONTROL” followed within 2 seconds by MEMORY”. By holding down the “CONTROL” button and repeatedly pressing the “MEMORY (Up Arrow)” button you can increase the Keypad LED backlight level to the maximum.
To **reduce the AAP Keypad Button backlight** level Press “CONTROL” followed within 2 seconds by “STAY”. By holding down the “CONTROL” button and repeatedly pressing the “STAY (Down Arrow)” button you can decrease the Keypad LED backlight level until it is off.

To **increase the Crow LCD backlight** level Press “CONTROL” followed within 2 seconds by “STAY”. By holding down the “Control” button and repeatedly pressing the “STAY (Left Arrow)” button you can increase the LCD backlight level to the maximum.
To **reduce the Crow LCD backlight** level Press “CONTROL” followed within 2 seconds by “BYPASS”. By holding down the “Control” button and repeatedly pressing the “BYPASS (Right Arrow)” button you can decrease the LCD backlight level until it is off.

To **increase the Crow Keypad Button backlight** level Press “CONTROL” followed within 2 seconds by “MEM⬆”. By holding down the “CONTROL” button and repeatedly pressing the “MEM⬆ (Up Arrow)” button you can increase the Keypad LED backlight level to the maximum.
To **reduce the Crow Keypad Button backlight** level Press “CONTROL” followed within 2 seconds by “⬇”. By holding down the “CONTROL” button and repeatedly pressing the “⬇ (Down Arrow)” button you can decrease the Keypad LED backlight level until it is off.

ADJUSTING THE KEYPAD BUZZER TONE

The user can adjust the frequency (tone) of the LCD keypad buzzer within a range of 16 steps. By adjusting the frequency the volume of the tone produced at the buzzer varies as well.

To **increase the frequency of the AAP LCD buzzer** Press “CONTROL” followed within 2 seconds by “1”. By holding down the “CONTROL” button and repeatedly pressing the “1” button you can increase the frequency of the buzzer tone.
To **decrease the frequency of the AAP LCD buzzer** Press “CONTROL” followed within 2 seconds by “2”. By holding down the “CONTROL” button and repeatedly pressing the “2” button you can decrease the frequency of the buzzer tone.

To **increase the frequency of the CROW LCD buzzer** Press “CONTROL” followed within 2 seconds by “A”. By holding down the “CONTROL” button and repeatedly pressing the “A” button you can increase the frequency of the buzzer tone.
To **decrease the frequency of the CROW LCD buzzer** Press “CONTROL” followed within 2 seconds by “B”. By holding down the “CONTROL” button and repeatedly pressing the “B” button you can decrease the frequency of the buzzer tone.

LCD KEYPAD "LOCAL EDIT" PROGRAM MODE

The LCD "Local Edit" Program Mode allows the programming of the keypad address number, the type of control panel it is connected to, enable the tamper switch and also to program a customised "System Name" (the name displayed during idle mode at the keypad) and Customised "Zone Names" (the text that appears on the keypad when a zone is unsealed).

ACCESSING LOCAL EDIT MODE

To enter Local Edit Program Mode on an AAP LCD Keypad Press **"CONTROL"** followed by **"BYPASS"** and hold for 2 seconds.
To enter Local Edit Program Mode on a CROW LCD Keypad Press **"CONTROL"** followed by **"ARM"** and hold for 2 seconds.
NOTE: You must press the "Control" button first and the "Bypass" or "Arm" button must be pressed within 2 seconds of pressing the Control button. If you make a mistake press the "Enter" button then repeat the process.

The display will now show **"Local Mode kb #"** where the # equals the keypad address as setup at location P900E (see "LCD keypad address assignment" below for details).

LOCAL EDIT MODE DIRECT PROGRAM ADDRESSES

There are a number of program addresses available to you at this point. They are;

[PROG]-[1]-[ENTER] to; **[PROG]-[64]-[ENTER]**	ZONE#1 TEXT (maximum 16 characters) ZONE#64 TEXT
[PROG]-[900]-[ENTER]	SET KEYPAD ADDRESS NUMBER FROM 1-8
[PROG]-[901]-[ENTER]	ENABLE/DISABLE KEYPAD TAMPER SWITCH
[PROG]-[902]-[ENTER]	PANEL TYPE (select one of 7 panel types)
[PROG]-[998]-[ENTER]	AREA IDENTIFYING CHARACTER (assigning numbers or letters to Areas)
[PROG]-[999]-[ENTER]	PANEL NAME DISPLAY (maximum 16 characters)

CHANGING THE ZONE NAMES (P1E - P64E)

When in "Local Edit Program Mode" and you have entered [PROG]-[1]-[ENTER], the display will look like this;

The Cursor will be underneath the first letter to be edited (in this case the "Z").
The letters **<A..Z>** indicate that the letters selected by the numeric buttons (0-9) will be in capitals.
By pressing the "MEMORY (AAP)" or "MEM⬆ (CROW)" button once, the display will change to **<a..z>** indicating that the letters selected by the numeric buttons (0-9) will be lower case.
By pressing the "MEMORY (AAP)" or "MEM⬆ (CROW)" button again, the display will change to <**ת..א**> indicating that Hebrew characters can be selected by the numeric buttons (0-9).
You can cycle back to another selection by pressing the "STAY (AAP)" or "⬇ (CROW)" button.
Once you have selected the desired font you can now proceed to change the text for Zone 1.
The table on the following page shows the English Characters that can be selected by each numeric button.
The lower case options are shown in ( ).
There are four different selections per button. By pressing the button once, a character will appear in the display (see "1st press" column below) . Pressing the same button again will cause the display to change to the next character in the sequence (see "2nd press" column). After you have pressed the same button four times the next press (5th) will cause the display to wrap back to the beginning.
Once you have selected the first character, Press the "PANIC➡ (AAP)" or "BYPASS➡ (CROW)" button to move the cursor one position to the right.
Now select the second character and move the cursor to the right repeating the process until all of the text is completed (Remember that there are a maximum of 16 characters per program address).

If you make a mistake use the "⬅ARM (AAP)" or "STAY⬅ (CROW)" button to move the cursor towards the left and make any corrections.
When you are happy with the text Press "ENTER" to save the changes. You can program the text for all zones in the same way.

▼Button #	1st Press	2nd Press	3rd Press	4th Press
1	* (')	# (<)	= (>)	1
2	A (a)	B (b)	C (c)	2
3	D (d)	E (e)	F (f)	3
4	G (g)	H (h)	I (i)	4
5	J (j)	K (k)	L (l)	5
6	M (m)	N (n)	O (o)	6
7	P (p)	Q (q)	R (r)	7
8	S (s)	T (t)	U (u)	8
9	V (v)	W (w)	X (x)	9
0	Blank	Y (y)	Z (z)	0

KEYPAD ADRESS (P900E)

All LCD keypads connected to the control panel MUST have different addresses programmed otherwise there could be clashes between multiple keypads on the same address. To change the keypad address enter **[PROG]-[900]-[ENTER.** The keypad will display the current keypad address number (set to number 1 by default). Select an unused number, eg 2, and then press <ENTER> to save the new address. The new address will now be displayed on the top line of the keypad eg "Local Keypad 2".

KEYPAD TAMPER SWITCH (P901E)

Some LCD keypads may have a tamper switch fitted. If the switch is fitted, the tamper monitoring is inhibited by default in programming at local edit address P901E. For the tamper switch to be active you must enable it at address P901E. After pressing P901E in "Local Edit" mode, pressing any numeric button will toggle the tamper state from disabled to enabled or vice versa. When the desired setting is displayed press <ENTER> to save the new setting.

PROGRAMMING PANEL TYPE (P902E)

The LCD keypad can be connected to many different control panels and the correct type must be set at the keypad for the text to be displayed correctly for the panel concerned. There are 7 panel types that can be set. The number you must program to select the correct panel type is shown in the chart below.

▼PANEL TYPE #	CONTROL PANEL NAME
0	POWERWAVE 4
1	POWERWAVE 8
2	POWERWAVE 16
3	POWERWAVE 64 (V1.01– V1.03)
4	POWERWAVE 64 (V1.04+)
5	ELITE 64
6	ELITE 64 Series II (V2.04+)

Panel type 6 is another variation of the ELITE 64 control panel that now includes the Near & Verified alarm reporting. The new LCD panel version allows for the memory messages to be displayed correctly for these alarm types.

CHANGING THE AREA SINGLE CHARACTER IDENTIFIER (P998E)

When you enter in **[PROG]-[998]-[ENTER]** the display will look like the example above. You may edit the single character Area identifier at this address starting at Area "A" (first left-hand position). The keypad allows for up to 16 areas but the actual number of areas supported on this panel is two. The first character (in this case the "A") is the identifier used to show the status of the first Area when armed. The second position (in this case the "B") is the identifier used to show the status of the second Area.
If you preferred to have the first area shown as Area "1" and not "A" then you can change it here using the same method as used previously. With the cursor underneath the letter "A", Press the "1" button four times until the character in the first slot shows "1".
When you are happy with the changes Press the "ENTER" button to save the changes.

CHANGING THE KEYPAD NAME (P999E)

When you enter **[PROG]-[999]-[ENTER]** the display will look like the example above. You may enter any name you wish up to 16 characters in length (using the same method as described for zone names). This name is displayed at the keypad in Idle mode.
When you are happy with the changes Press "ENTER" to save.

RESETTING INDIVIDUAL TEXT TO DEFAULT or LAST SAVED SETTING

While in "Local Edit Mode" there are two special functions that can be performed at any of the "Local Edit" Program locations. They are ***"Return to Default Text"*** *or "****Return to Previously Saved Text".***

For Example, to *Return the Zone 1 text back to Defaults*;

If during the programming of Zone 1 text [PROG]-[1]-[ENTER] you wished to return back to the default text, simply Press and hold the **"CONTROL"** button followed within 2 seconds by **"2"** if using an AAP Keypad. If using a Crow Keypad press and hold the **"B"** button for 2 seconds, and the text will return to the default settings.

If you wished to return to the last saved version of the text simply Press and hold the **"CONTROL"** button followed within 2 seconds by **"1"** if using an AAP Keypad. If using a Crow Keypad press and hold the **"A"** button for 2 seconds and the last saved text for zone one will appear.
NOTE: If the last saved version of text for Zone 1 was in fact the default setting, then pressing "Control" then "1" or "A" will return the default text anyway.

COPYING TEXT TO ANOTHER LCD KEYPAD

If more than one LCD keypad is connected to the panel, it is possible to copy the edited Text from one LCD keypad to all other LCD keypads connected to the same panel.

If using an AAP Keypad, while in "Local Edit Mode" at the keypad with the edited text press **"Control**" followed within 2 seconds by **"3"**. If using a Crow Keypad pressing the **"CHIME"** button for 2 seconds while in "Local Edit Mode" will perform the transfer. The text in your keypad will be transferred to all other LCD keypads connected to the panel.

EXITING LOCAL EDIT PROGRAM MODE

Press the <PROGRAM> then <ENTER> and the LCD keypad will leave Local Edit Mode and return to Idle Mode.

VIEW MEMORY MODE

The alarm panel has an event memory which stores the most recent events, (up to 255), including all alarm events, all system events such as mains failure, etc, as well as arming & disarming by Area and User. This event memory is displayed via the LCD keypad with the most recent event shown first and subsequent events following in descending order from newest to oldest.
The LCD display will show "NEW EVENT" when there is a new alarm in memory which has not been viewed. To view the memory events simply press the MEMORY button. Any current system faults will be displayed first (see comment below), then press the MEMORY button again to see the first memory event (starting at the most recent event first). Press the MEMORY button again to display the next event. Each time the MEMORY button is pressed the panel will show the next event. To cancel the memory display at any time just press “ENTER”. Each event has a full text description plus the time and date that the event occurred. If the text is too long to fit the display you can scroll to the right by pressing the <➔BYPASS> button repeatedly or move back to the left by pressing the <🡐 STAY”> button.

Current System Faults

When viewing the memory event buffer by pressing the “MEMORY” button, the first thing that will always be displayed are any Current System Faults that might be still active. There are up to 8 different system faults that can be indicated by the LCD keypad. If there are no current system faults the keypad will show “No current Faults”. The 8 possible different system faults that can be displayed by the keypad are listed in the table below. Following the display of current system faults the panel will then sequence through the 255 historical memory events as detailed above.

CURRENT SYSTEM FAULTS			
1	**Battery Low**	**5**	**Radio Pendant Battery Low**
2	**Mains or 12V Fuse Failure**	**6**	**Supervised Detector Failure**
3	**Telephone Line Failure**	**7**	**Sensorwatch Timeout**
4	**Radio Detector Battery Low**	**8**	**Dialler Kiss-off Failure**

ACCESSING PROGRAM MODE FOR THE FIRST TIME

GENERAL INFORMATION

There are two program modes in the panel. The first is the **"Client"** Program Mode to allow a system User to Add, Change or Delete User Codes.
The second mode is the **"Installer"** Program Mode. The Installer Program Mode allows ALL programmed data to be changed. Access to both Modes is described below.

ACCESS TO INSTALLER PROGRAM MODE ON POWER UP

When **power is applied** to the controller for the first time, (**with the panel tamper input open and none of the Areas either Armed or in Stay mode)**, the panel will inhibit tamper alarms and ready the panel to enter INSTALLATION PROGRAM Mode (unless the Installer Lock-out option P741E4E has previously been enabled). At this point you can go to any keypad which is connected to the panel and;

Press –"**PROGRAM"-"ENTER"**

This will automatically put the keypad into Installation Program mode. The LCD display will show "INSTALLER MODE".

ACCESS TO PROGRAM MODES FROM RUN MODE

Before you can enter program mode from the normal Run Mode, the panel must be disarmed and not in stay mode. Then to access **CLIENT MODE**;

Press <**PROGRAM**> - <Code 1 (or Master Code)> - <**ENTER**>
LCD displays "CLIENT MODE"
Note: Default Master Code (Code 1) is 1,2,3

You are now in Client Program Mode. When you are in Client programming mode, the options set at P221E-P240E define what areas of programming you may change.

To enter **INSTALLER MODE** from **CLIENT MODE;**

Press <**PROGRAM**> - <Install Code> - <**ENTER**>
LCD displays "INSTALLER MODE"
Note: Default Installer Code (P410E) is 0,0,0,0,0,0

By default the installer can go directly to Installer Program Mode from Normal Run mode provided No Areas are Armed or in Stay Mode. The Installer Mode direct option can be disabled by turning Off Option 3 at address P741E.

HOW TO PROGRAM YOUR PANEL

Once you have accessed one of the Program Modes the programming sequence follows the example below;

<**PROGRAM**> - <1,2,3 or 4 digit address> - <**ENTER**>
3 short beeps if OK - 1 long beep if error
The LCD will display current value or status
Enter the new data
<New Data> - <**ENTER**>
3 short beeps if OK - 1 long beep if error

An example of programming is shown below. Here we are programming User Code 23 (P23E) with the code 2580.

P 23 E 2,5,8,0 E

In the example above the <P> represents the **PROGRAM** key, <23> represents the actual address for User Code 23, 2580 is the data and <E> represents the **ENTER** key.

TO CLEAR PROGRAM INFORMATION (From Installation Mode Only)

If you wish to default the panel and start programming with a known set of parameters you can follow the sequence below.
e.g. To reset ALL parameters to the factory settings

Press <**PROGRAM**> - 1105 - <**ENTER**>
1 beep
Then press - 1105 - <**ENTER**>
3 beeps

To ensure that the panel cannot be accidentally defaulted, the default address must be entered in twice as per the example above before the default operation will occur.

TO EXIT PROGRAM MODES

To exit program modes when you have finished programming:

Press <**PROGRAM**> - <**ENTER**>

The panel is now back in normal Run Mode and any program changes you have made will be in effect.

Note: While in Program Mode, Tampers and 24 hour alarms are disabled which allows quiet access to the panel, satellite siren units etc. Also, the panel cannot be armed while in program mode. On exiting program mode, all inputs are scanned and if any tampers or 24Hr alarms are present an activation will occur.

Note: Where there are multiple options at one address, the numbers "0" & "9" have been reserved. Entering a "0" at the address will turn all options OFF at that address whereas entering a "9" will turn all options ON at that address.

USER CODE PROGRAMMING

USER CODES - (P1E to P100E) & **INSTALLER CODE -** (P410E)

There are 101 codes available in the panel, 100 user codes and 1 installer code. All Users 1-100 can be unique 1-6 digit codes or Users 21-100 can be programmed as Radio Keys. If a radio key has been loaded as a User, that user slot is not available to be used as a code. If you enter a user address number and you get a single long error beep, this indicates that the user is programmed as a radio user. The user codes are located at addresses P1E-P100E. By default, **Code 1 is the Master Code** because it has full access to enter Client Program mode. Other user codes can be programmed as master codes if required. The Installer code is stored at address P410E and is used to access *Installer* Program mode.

Codes P1E-P100E may be varied in length from 1 to 6 digits. Code P410E (Installer Code) must be 3-6 digits.

To program a User Code you must first be in client or installer program mode, then enter the address from 1-100. (If there is already a code programmed at this address, it will be displayed to you after you press the ENTER button. If the slot has a Radio key user loaded you will get a long error beep when you enter the address).

NOTE: Not all User Codes may have the ability to access Client Program Mode. The installer can restrict access to Users so that they have No access, Limited Access or Full access to Client Mode as defined at addresses P221E-P240E.

TO ADD A NEW CODE:
For example to program a code of 5,6,7 for User 50 you would enter the following;

P 50 E
(*If a code was there it would be displayed, if not, the display will be blank)*
Then **567 E**
3 beeps
The new code will now be displayed

TO CHANGE A CODE:
For example to change User code 1 from the default setting of 1,2,3 to 9,8,7,6 you would enter the following data at the keypad.

P 1 E
(*Old code is displayed at the keypad, in this case it will be 1,2,3)*
Then **9876 E**
3 beeps
The new code will now be displayed

To replace a code simply enter the new code in the same address as the old code. This will overwrite the previous code but maintain the user permissions assigned by the programmed user group number.

TO DELETE A CODE:
To clear or delete a code simply press and hold the “CONTROL” button followed within 2 seconds by the “0” button at the address where the old code is stored.

e.g. P 3 E <*CONTROL> then <0>* E
3 beeps
This will delete the programmed User 3 code

USER CODE GROUP NUMBER P101E—P200E (Value from 0-20)

Each User code can be assigned a User Code Group number from 1-20. The User Code groups assign the Areas and Arm/Disarm parameters plus many other options to each User. The groups are fully programmable allowing control of the various activities a User may perform.

Addresses P101E-P200E relate to Users 1-100. A value of 1-20 is assigned at each address associated with a User. If the User has a group number of 0 they are not allowed to perform any functions. The options associated with a User Group are programmed at addresses P201E-P340E.

USER GROUPS 1-20 ARM/DISARM OPTIONS P201E-P220E

The first set of options for the User groups assigns the Areas that each group is allowed to Arm or Disarm as well as whether it can Arm/Disarm the full alarm, Stay Mode or both. If the User Group is required to allow direct output control (see P281E-P320E), all of these options must be turned off for the output programming to work.

P201E	User Arm/Disarm Options for Group #1 - Default 1-8	**OPTIONS**
P202E	User Arm/Disarm Options for Group #2 - Default 1,5,6	1 = Area "A"
P203E	User Arm/Disarm Options for Group #3 - Default 1,5,6	2 = Area "B"
P204E	User Arm/Disarm Options for Group #4 - Default 1,5,6	3 = Area "C"
P205E	User Arm/Disarm Options for Group #5 - Default 1,5,6	4 = Area "D"
P206E	User Arm/Disarm Options for Group #6 - Default 1,5,6	5 = Code can arm
P207E	User Arm/Disarm Options for Group #7 - Default 1,5,6	6 = Code can disarm
P208E	User Arm/Disarm Options for Group #8 - Default 1,5,6	7 = Code can arm stay mode
P209E	User Arm/Disarm Options for Group #9 - Default 1,5,6	8 = Code can disarm stay mode
P210E	User Arm/Disarm Options for Group #10 - Default 1,5,6	
P211E	User Arm/Disarm Options for Group #11 - Default 1,5,6	
P212E	User Arm/Disarm Options for Group #12 - Default 1,5,6	
P213E	User Arm/Disarm Options for Group #13 - Default 1,5,6	
P214E	User Arm/Disarm Options for Group #14 - Default 1,5,6	
P215E	User Arm/Disarm Options for Group #15 - Default 1,5,6	
P216E	User Arm/Disarm Options for Group #16 - Default 1,5,6	
P217E	User Arm/Disarm Options for Group #17 - Default 1,5,6	
P218E	User Arm/Disarm Options for Group #18 - Default 1,5,6	
P219E	User Arm/Disarm Options for Group #19 - Default 1,5,6	
P220E	User Arm/Disarm Options for Group #20 - Default 1,5,6	

Option 1 **Assigned to Area "A"** - If this option is turned on, the User can Arm/Disarm Area "A" as programmed by options 5, 6, 7, and 8.

Option 2 **Assigned to Area "B"** - If this option is turned on, the User can Arm/Disarm Area "B" as programmed by options 5, 6, 7, and 8.

Option 3 **Assigned to Area "C"** - If this option is turned on, the User can Arm/Disarm Area "C" as programmed by options 5, 6, 7, and 8.

Option 4 **Assigned to Area "D"** - If this option is turned on, the User can Arm/Disarm Area "D" as programmed by options 5, 6, 7, and 8.

Option 5 **User can ARM** - If this option is turned on, the User can Arm ALL Areas assigned at options 1-4 above.

Option 6 **User can DISARM** - If this option is turned on, the User can Disarm ALL Areas assigned at options 1-4 above.

Option 7 **User can ARM STAY Mode** - If this option is turned on, the User can Arm Stay Mode for ALL Areas assigned at options 1-4 above.

Option 8 **User can DISARM STAY Mode** - If this option is turned on, the User can Disarm Stay Mode for ALL Areas assigned at options 1-4 above.

USER GROUPS 1-20 MISCELLANEOUS OPTIONS P221E-P240E

The Miscellaneous User group options allow the User to gain access to Client Program Mode to perform various program functions. If the User should not to have access to Client Mode, all options at this address must be off.

P221E	User Group #1 Miscellaneous Options - Default 1-7	**OPTIONS**
P222E	User Group #2 Miscellaneous Options - Default 5	1 = Can change telephone #'s
P223E	User Group #3 Miscellaneous Options - Default 5	2 = Can change Clock
P224E	User Group #4 Miscellaneous Options - Default 5	3 = Can Print Event Memory
P225E	User Group #5 Miscellaneous Options - Default 5	4 = Answer In-coming call or Start Callback
P226E	User Group #6 Miscellaneous Options - Default 5	5 = Can change Their Code
P227E	User Group #7 Miscellaneous Options - Default 5	6 = Can change All Codes
P228E	User Group #8 Miscellaneous Options - Default 5	7 = Allow access to Installer Mode
P229E	User Group #9 Miscellaneous Options - Default 5	8 = Latchkey Arming
P230E	User Group #10 Miscellaneous Options - Default 5	
P231E	User Group #11 Miscellaneous Options - Default 5	
P232E	User Group #12 Miscellaneous Options - Default 5	
P233E	User Group #13 Miscellaneous Options - Default 5	
P234E	User Group #14 Miscellaneous Options - Default 5	
P235E	User Group #15 Miscellaneous Options - Default 5	
P236E	User Group #16 Miscellaneous Options - Default 5	

P237E User Group #17 Miscellaneous Options - Default 5
P238E User Group #18 Miscellaneous Options - Default 5
P239E User Group #19 Miscellaneous Options - Default 5
P240E User Group #20 Miscellaneous Options - Default 5

Option 1 **Can change telephone #'s** - If this option is turned on, the User can enter Client Mode and change the telephone numbers at addresses P830E-P836E.

Option 2 **Can change Clock** - If this option is turned on, the User can change the clock settings at addresses P818E-P822E

Option 3 **Can Print Event Memory -** If this option is turned on**,** the User can access client mode and print the memory events to a serial printer (if connected via the optional Serial Board). The User must enter P1094E to start printing.

Option 4 **Answer In-coming call or Start Callback -** For security reasons, the panel may be set to not allow automatic answering of an in-coming call. If this option is turned on however, the user can access Client Mode while there is an in-coming call and press P1095E to make the panel answer the call (Answer In-coming Call). Alternatively they can enter in P1108E and initiate a callback to the callback telephone number. At this point Upload/download can occur.

Option 5 **Can change Their Code -** This option allows the User to access Client Mode to change their own code but they cannot view or change any other codes.

Option 6 **Can change All Codes -** This option allows the User to access Client Mode to change any of the 100 User codes. If the User has this option assigned they can also start Walk-test Mode (P1096E) while in Client Mode.

Option 7 **Can allow access to Installer mode -** This option allows the User to access Client Mode and then a person with the Installer code can access Installer program Mode. If Direct access to installer mode is turned off at address P741E option 3 then this is the only way to get into installer mode. If the User has this option turned on they can also start Walk-test Mode (P1096E) and RSSI Mode (P710E & P720E) while in Client Mode.

Option 8 **Latchkey Arming -** This option assigns the Latchkey Arming function to the User. If an Area is armed by a Latchkey User (this option turned on) or by the "A" or "B" buttons with the Latchkey Arming function assigned (see P812E & P813E option 5) the panel will arm in latchkey mode. If the panel is disarmed by the same or another Latchkey user, nothing will happen. However, if the panel is armed in latchkey mode and it is disarmed by a non-latchkey user (a user with this option turned off) the panel will send a disarm report to a designated telephone number/s (as per the scenario programmed at P678E, P778E, P878E & P978E). If the alarm is not armed by a Latchkey User no report will be generated on disarming. This option is designed to allow a Latchkey User to arm the alarm and get a report when the children have returned home and disarmed the alarm using their non-latchkey code.

USER GROUPS 1-20 RADIO PENDANT OPTIONS P241E-P260E

P241E User Group #1 Radio Pendant Options - Default 0
P242E User Group #2 Radio Pendant Options - Default 0
P243E User Group #3 Radio Pendant Options - Default 0
P244E User Group #4 Radio Pendant Options - Default 0
P245E User Group #5 Radio Pendant Options - Default 0
P246E User Group #6 Radio Pendant Options - Default 0
P247E User Group #7 Radio Pendant Options - Default 0
P248E User Group #8 Radio Pendant Options - Default 0
P249E User Group #9 Radio Pendant Options - Default 0
P250E User Group #10 Radio Pendant Options - Default 0
P251E User Group #11 Radio Pendant Options - Default 0
P252E User Group #12 Radio Pendant Options - Default 0
P253E User Group #13 Radio Pendant Options - Default 0
P254E User Group #14 Radio Pendant Options - Default 0
P255E User Group #15 Radio Pendant Options - Default 0
P256E User Group #16 Radio Pendant Options - Default 0
P257E User Group #17 Radio Pendant Options - Default 0
P258E User Group #18 Radio Pendant Options - Default 0
P259E User Group #19 Radio Pendant Options - Default 0

OPTIONS
1 = Pendant Disabled in Alarm
2 = Immediate Panic Alarm
3 = Delayed Panic Alarm (1.5s)
4 = Spare
5 = Spare
6 = Spare
7 = Spare
8 = Spare

P260E User Group #20 Radio Pendant Options - Default 0

Option 1 **Pendant disabled during an alarm** - If this option is turned on, a Radio User assigned with this user group will be disabled when the system is in alarm.

Option 2 **Pendant causes Immediate Panic** - If this option is turned on, the Radio User will cause an immediate Panic alarm.

Option 3 **Pendant causes Delayed Panic -** If this option is turned on, the Radio User will cause a delayed Panic alarm. The button must be held on for longer than 1.5 seconds to create the alarm.

USER GROUPS 1-20 RADIO PENDANT TYPE P261E-P280E

P261E User Group #1 Radio Pendant Type - Default 0
P262E User Group #2 Radio Pendant Type - Default 0
P263E User Group #3 Radio Pendant Type - Default 0
P264E User Group #4 Radio Pendant Type - Default 0
P265E User Group #5 Radio Pendant Type - Default 0
P266E User Group #6 Radio Pendant Type - Default 0
P267E User Group #7 Radio Pendant Type - Default 0
P268E User Group #8 Radio Pendant Type - Default 0
P269E User Group #9 Radio Pendant Type - Default 0
P270E User Group #10 Radio Pendant Type - Default 0
P271E User Group #11 Radio Pendant Type - Default 0
P272E User Group #12 Radio Pendant Type - Default 0
P273E User Group #13 Radio Pendant Type - Default 0
P274E User Group #14 Radio Pendant Type - Default 0
P275E User Group #15 Radio Pendant Type - Default 0
P276E User Group #16 Radio Pendant Type - Default 0
P277E User Group #17 Radio Pendant Type - Default 0
P278E User Group #18 Radio Pendant Type - Default 0
P279E User Group #19 Radio Pendant Type - Default 0
P280E User Group #20 Radio Pendant Type - Default 0

OPTIONS
0 = Generic Pendant
1 = Crow FreeWave
21 = Ness

Option 1 **Generic Pendant Type** - If this option is selected, the Radio key User has no specific type. In this case, the code that is learnt must always be the same for it to work and it should not send any special signals such as battery low.

Option 2 **FreeWave Pendant Type** - This option identifies the Radio key as a FreeWave type. When the Radio key registers a low battery it is transmitted to the panel and recognised as such and reported at the keypad and via the dialler, if programmed to do so.

Option 3 **Ness Pendant Type -** This option identifies the Radio key as a Ness type. When the Radio key registers a low battery it is transmitted to the panel and recognised as such and reported at the keypad and via the dialler, if programmed to do so.

USER GROUPS 1-20 OUTPUTS TO TURN ON P281E-P300E

This set of options allow a User code or radio key be able to turn ON an Output directly. For the output control to work all Arm/Disarm options in the corresponding group must be OFF (P201E-P220E).

P281E User Group #1 Outputs 1-8 to turn On - Default 0
P282E User Group #2 Outputs 1-8 to turn On - Default 0
P283E User Group #3 Outputs 1-8 to turn On - Default 0
P284E User Group #4 Outputs 1-8 to turn On - Default 0
P285E User Group #5 Outputs 1-8 to turn On - Default 0
P286E User Group #6 Outputs 1-8 to turn On - Default 0
P287E User Group #7 Outputs 1-8 to turn On - Default 0
P288E User Group #8 Outputs 1-8 to turn On - Default 0
P289E User Group #9 Outputs 1-8 to turn On - Default 0
P290E User Group #10 Outputs 1-8 to turn On - Default 0
P291E User Group #11 Outputs 1-8 to turn On - Default 0
P292E User Group #12 Outputs 1-8 to turn On - Default 0
P293E User Group #13 Outputs 1-8 to turn On - Default 0
P294E User Group #14 Outputs 1-8 to turn On - Default 0

P295E User Group #15 Outputs 1-8 to turn On - Default 0
P296E User Group #16 Outputs 1-8 to turn On - Default 0
P297E User Group #17 Outputs 1-8 to turn On - Default 0
P298E User Group #18 Outputs 1-8 to turn On - Default 0
P299E User Group #19 Outputs 1-8 to turn On - Default 0
P300E User Group #20 Outputs 1-8 to turn On - Default 0

USER GROUPS 1-20 OUTPUTS TO TURN OFF P301E-P320E

This set of options allow a User code or radio key be able to turn OFF an Output directly. For the output control to work all Arm/Disarm options in the corresponding group must be OFF (P201E-P220E).

P301E User Group #1 Outputs 1-8 to turn Off - Default 0
P302E User Group #2 Outputs 1-8 to turn Off - Default 0
P303E User Group #3 Outputs 1-8 to turn Off - Default 0
P304E User Group #4 Outputs 1-8 to turn Off - Default 0
P305E User Group #5 Outputs 1-8 to turn Off - Default 0
P306E User Group #6 Outputs 1-8 to turn Off - Default 0
P307E User Group #7 Outputs 1-8 to turn Off - Default 0
P308E User Group #8 Outputs 1-8 to turn Off - Default 0
P309E User Group #9 Outputs 1-8 to turn Off - Default 0
P310E User Group #10 Outputs 1-8 to turn Off - Default 0
P311E User Group #11 Outputs 1-8 to turn Off - Default 0
P312E User Group #12 Outputs 1-8 to turn Off - Default 0
P313E User Group #13 Outputs 1-8 to turn Off - Default 0
P314E User Group #14 Outputs 1-8 to turn Off - Default 0
P315E User Group #15 Outputs 1-8 to turn Off - Default 0
P316E User Group #16 Outputs 1-8 to turn Off - Default 0
P317E User Group #17 Outputs 1-8 to turn Off - Default 0
P318E User Group #18 Outputs 1-8 to turn Off - Default 0
P319E User Group #19 Outputs 1-8 to turn Off - Default 0
P320E User Group #20 Outputs 1-8 to turn Off - Default 0

USER GROUPS 1-20 TIME ZONE CONTROL P321E-P340E

This set of options allow a User code or radio key to be controlled by a Time Zone. At any of the addresses below you can select any combination of the possible 8 time zones. If no time zones are assigned, the code or radio key will work at all times. If a time zone is assigned, the code or radio key will only work when the time zone is active. By selecting more than one time zone it is possible to get complex time control for different times during the week eg if TZ#1 was Mon-Fri, 0830-1700 and TZ#2 was Sat, 0900-1200, you could select time zones 1&2 and both times would control the code or radio key.

P321E User Group #1 Time Zones 1-8 - Default 0
P322E User Group #2 Time Zones 1-8 - Default 0
P323E User Group #3 Time Zones 1-8 - Default 0
P324E User Group #4 Time Zones 1-8 - Default 0
P325E User Group #5 Time Zones 1-8 - Default 0
P326E User Group #6 Time Zones 1-8 - Default 0
P327E User Group #7 Time Zones 1-8 - Default 0
P328E User Group #8 Time Zones 1-8 - Default 0
P329E User Group #9 Time Zones 1-8 - Default 0
P330E User Group #10 Time Zones 1-8 - Default 0
P331E User Group #11 Time Zones 1-8 - Default 0
P332E User Group #12 Time Zones 1-8 - Default 0
P333E User Group #13 Time Zones 1-8 - Default 0
P334E User Group #14 Time Zones 1-8 - Default 0
P335E User Group #15 Time Zones 1-8 - Default 0
P336E User Group #16 Time Zones 1-8 - Default 0
P337E User Group #17 Time Zones 1-8 - Default 0
P338E User Group #18 Time Zones 1-8 - Default 0
P339E User Group #19 Time Zones 1-8 - Default 0
P340E User Group #20 Time Zones 1-8 - Default 0

INSTALLER CODE - P410E

This code is used to enter Installer Program mode either from Client Program mode or directly depending upon options set. The default installer code is 000000. The Installer Code can only be changed from Installer Program Mode. To change the Installer Code press P410E, (the existing code will be displayed at the keypad). Enter in the new code then press the ENTER button. The new code will be displayed on the LCD.
The Installer Code may vary from 3-6 digits in length.
If the alarm is Disarmed, the Installer Code can gain access directly to Installer Program Mode provided Option 3 at address P741E is on.

DURESS DIGIT - P744E

P744E **0-9** **Duress Digit** (Default 0) - A Duress Alarm is activated when the "Duress Digit" defined at this address is prefixed to a valid user code. The resulting Duress Alarm will disarm the Area in the normal way but it can also be programmed to operate an output and/or report a duress event via the dialler. Duress digit values of 1-9 may be programmed at this address. If the value is set to zero (0) the Duress function is disabled. A Duress alarm will be reset the next time the area is armed then disarmed.

ZONE PROGRAMMING

Up to 64 zones can be connected to the panel. All zones can be programmed as hardwired or wireless zones. The functions or characteristics of every zone are configured in one of 20 zone groups. If a zone has a value of “0” programmed as it’s group number, that zone is disabled. By default the first 16 zones are enabled as hardwired zones. Up to two expanders can be connected to the panel to cover the hardwired zones. Expander 1 covers zones 1-32 and expander 2 covers zones 33-64. If there are no hardwired zones assigned to an expander, the panel will not expect the expander to be connected. If just one hardwired zone to be assigned to an expander the panel will then expect to see the expander on the buss. If the expander is not there the panel will generate an expander failure alarm until the expander is connected.

ASSIGNING A ZONE GROUP (1-20) TO A ZONE

P341E Zone 1 option Group # 1-20 - default 1
P342E Zone 2 option Group # 1-20 - default 1
P343E Zone 3 option Group # 1-20 - default 1
P344E Zone 4 option Group # 1-20 - default 1
P345E Zone 5 option Group # 1-20 - default 1
P346E Zone 6 option Group # 1-20 - default 1
P347E Zone 7 option Group # 1-20 - default 1
P348E Zone 8 option Group # 1-20 - default 1
P349E Zone 9 option Group # 1-20 - default 1
P350E Zone 10 option Group # 1-20 - default 1
P351E Zone 11 option Group # 1-20 - default 1
P352E Zone 12 option Group # 1-20 - default 1
P353E Zone 13 option Group # 1-20 - default 1
P354E Zone 14 option Group # 1-20 - default 1
P355E Zone 15 option Group # 1-20 - default 1
P356E Zone 16 option Group # 1-20 - default 1
P357E Zone 17 option Group # 1-20 - default 0
P358E Zone 18 option Group # 1-20 - default 0
P359E Zone 19 option Group # 1-20 - default 0
P360E Zone 20 option Group # 1-20 - default 0
P361E Zone 21 option Group # 1-20 - default 0
P362E Zone 22 option Group # 1-20 - default 0
P363E Zone 23 option Group # 1-20 - default 0
P364E Zone 24 option Group # 1-20 - default 0
P365E Zone 25 option Group # 1-20 - default 0
P366E Zone 26 option Group # 1-20 - default 0
P367E Zone 27 option Group # 1-20 - default 0
P368E Zone 28 option Group # 1-20 - default 0
P369E Zone 29 option Group # 1-20 - default 0
P370E Zone 30 option Group # 1-20 - default 0
P371E Zone 31 option Group # 1-20 - default 0
P373E Zone 33 option Group # 1-20 - default 0
P374E Zone 34 option Group # 1-20 - default 0
P375E Zone 35 option Group # 1-20 - default 0
P376E Zone 36 option Group # 1-20 - default 0
P377E Zone 37 option Group # 1-20 - default 0
P378E Zone 38 option Group # 1-20 - default 0
P379E Zone 39 option Group # 1-20 - default 0
P380E Zone 40 option Group # 1-20 - default 0
P381E Zone 41 option Group # 1-20 - default 0
P382E Zone 42 option Group # 1-20 - default 0
P383E Zone 43 option Group # 1-20 - default 0
P384E Zone 44 option Group # 1-20 - default 0
P385E Zone 45 option Group # 1-20 - default 0
P386E Zone 46 option Group # 1-20 - default 0
P387E Zone 47 option Group # 1-20 - default 0
P388E Zone 48 option Group # 1-20 - default 0
P389E Zone 49 option Group # 1-20 - default 0
P390E Zone 50 option Group # 1-20 - default 0
P391E Zone 51 option Group # 1-20 - default 0
P392E Zone 52 option Group # 1-20 - default 0
P393E Zone 53 option Group # 1-20 - default 0
P394E Zone 54 option Group # 1-20 - default 0
P395E Zone 55 option Group # 1-20 - default 0
P396E Zone 56 option Group # 1-20 - default 0
P397E Zone 57 option Group # 1-20 - default 0
P398E Zone 58 option Group # 1-20 - default 0
P399E Zone 59 option Group # 1-20 - default 0
P400E Zone 60 option Group # 1-20 - default 0
P401E Zone 61 option Group # 1-20 - default 0
P402E Zone 62 option Group # 1-20 - default 0
P403E Zone 63 option Group # 1-20 - default 0

P372E Zone 32 option Group # 1-20 - default 0 **P404E** Zone 64 option Group # 1-20 - default 0

ZONE GROUP OPTIONS A - ARM/DISARM

Zone Options A

P411E Zone Group #1 Options A Default 1,6,7
P412E Zone Group #2 Options A Default 1,6,7
P413E Zone Group #3 Options A Default 1,6,7
P414E Zone Group #4 Options A Default 1,6,7
P415E Zone Group #5 Options A Default 1,6,7
P416E Zone Group #6 Options A Default 1,6,7
P417E Zone Group #7 Options A Default 1,6,7
P418E Zone Group #8 Options A Default 1,6,7
P419E Zone Group #9 Options A Default 1,6,7
P420E Zone Group #10 Options A Default 1,6,7
P421E Zone Group #11 Options A Default 1,6,7
P422E Zone Group #12 Options A Default 1,6,7
P423E Zone Group #13 Options A Default 1,6,7
P424E Zone Group #14 Options A Default 1,6,7
P425E Zone Group #15 Options A Default 1,6,7
P426E Zone Group #16 Options A Default 1,6,7
P427E Zone Group #17 Options A Default 1,6,7
P428E Zone Group #18 Options A Default 1,6,7
P429E Zone Group #19 Options A Default 1,6,7
P430E Zone Group #20 Options A Default 1,6,7

1 = Assigned to Area "A"
2 = Assigned to Area "B"
3 = Assigned to Area "C"
4 = Assigned to Area "D"
5 = Is a Stay Mode Zone
6 = Can be Manually Bypassed
7 = Can Auto-bypass
8 = Is a Chime Zone

Option 1 **Assigned to Area "A"-** A zone with this option turned on is in Area A. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.

Option 2 **Assigned to Area "B"-** A zone with this option turned on is in Area B. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.

Option 3 **Assigned to Area "C"-** A zone with this option turned on is in Area C. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.

Option 4 **Assigned to Area "D"-** A zone with this option turned on is in Area D. If in more than one area, all areas assigned to the zone must be armed before it is in the armed state.

Option 5 **Is a Stay Mode Zone -** A zone with this option turned on is a stay mode zone. If in more than one area, all areas assigned to the zone must be in stay mode before it is in the armed state.

Option 6 **Can be Manually Bypassed -** A zone with this option turned on can be bypassed using the "Bypass" function.

Option 7 **Can be Auto-Bypassed -** A zone with this option turned on can be automatically bypassed if unsealed at the end of the exit delay time.

Option 8 **Is a Chime Zone -** A zone with this option turned on will cause a Chime alarm when triggered during the Disarmed state.

ZONE GROUP OPTIONS B - ZONE TYPE

Zone Options B

P431E Zone Group #1 Options B Default 0
P432E Zone Group #2 Options B Default 0
P433E Zone Group #3 Options B Default 0
P434E Zone Group #4 Options B Default 0
P435E Zone Group #5 Options B Default 0
P436E Zone Group #6 Options B Default 0
P437E Zone Group #7 Options B Default 0
P438E Zone Group #8 Options B Default 0
P439E Zone Group #9 Options B Default 0
P440E Zone Group #10 Options B Default 0
P441E Zone Group #11 Options B Default 0
P442E Zone Group #12 Options B Default 0
P443E Zone Group #13 Options B Default 0
P444E Zone Group #14 Options B Default 0

1 = Is a 24 Hour Zone
2 = Is a 24 Hour Fire Zone
3 = Is a 24 Hour Auto-Reset Zone
4 = Is a Permanent Chime Zone
5 = Is a Handover Zone
6 = Is a two Trigger Zone
7 = Can Arm if zone not "Ready"
8 = Is a Siren Lockout Zone

P445E Zone Group #15 Options B Default 0
P446E Zone Group #16 Options B Default 0
P447E Zone Group #17 Options B Default 0
P448E Zone Group #18 Options B Default 0
P448E Zone Group #19 Options B Default 0
P450E Zone Group #20 Options B Default 0

Option 1 **24 Hour Zone -** A zone with this option turned on is active at all times and will trigger a 24 hour alarm when activated. If the zone group has an entry delay programmed, the zone has to be in alarm for longer than the delay time to cause an alarm. 24 Hour alarms are not assigned to areas and so are common to all areas. Any User can reset a 24 Hour alarm.

Option 2 **24 Hour Fire Zone -** A zone with this option turned on is active at all times and will trigger a 24 hour fire alarm when activated. A 24 Hour Fire zone will cause any programmed alarm outputs to pulse on & off to differentiate it from a normal 24 hour alarm. The same entry delay function applies as per Option 1 above. 24 Hour alarms are not assigned to areas and so are common to all areas. Any User can reset a 24 Hour alarm

Option 3 **24 Hour Auto-reset Zone -** A zone with this option turned on is active at all times and will trigger a 24 hour alarm when activated. Unlike the other two options above, when the detector resets, the alarm will also reset automatically without having to use a code to reset the alarm. The same entry delay function applies as per Option 1 above. 24 Hour alarms are not assigned to areas and so are common to all areas. Any User can reset a 24 Hour alarm

Option 4 **Is a Permanent Chime Zone -** A zone with this option turned on is always going to be a chime zone. It will only ever operate the chime alarms and will never trigger a normal alarm when Armed.

Option 5 **Is a Handover Zone -** A zone with this option turned on will have an entry delay (a suitable delay time must also be programmed for the same group) provided another zone (that is NOT programmed as a handover zone) has started an entry delay. If no entry delay is active when this zone is triggered it will act as an instant zone.

Option 6 **Is a Two Trigger Zone -** A zone with this option turned on must be triggered twice within the two trigger time period (P989E) before it will cause an alarm. Alternatively, two separate zones both with the two trigger function can alarm once each within the two trigger time period and this will also result in an alarm. In the case of a reed switch or similar device, if a single two trigger zone is left unsealed for a period exceeding the two trigger period this will also cause an alarm. **NOTE:** NEVER assign this option to a wireless PIR or reed switch as it will not trigger an alarm when armed.

Option 7 **Can Arm if zone is not "Ready" -** If the Area/s assigned to this group are NOT allowed to arm if a zone is unsealed (Not Ready) at the time of arming (see P670E, P770E, P870E & P970E option 1) then this option will allow individual zone groups to still allow arming if a zone is unsealed.

Option 8 **Is a Siren Lockout zone -** A zone with this option turned on will operate any programmed outputs when in alarm but it cannot cause another alarm (Lockout) until the area is Disarmed then Armed again. This feature is designed to stop a zone from being able to cause multiple triggers to audible alarms.

ZONE GROUP OPTIONS C - SPECIAL FUNCTIONS

P451E Zone Group #1 Options C Default 1
P452E Zone Group #2 Options C Default 1
P453E Zone Group #3 Options C Default 1
P454E Zone Group #4 Options C Default 1
P455E Zone Group #5 Options C Default 1
P456E Zone Group #6 Options C Default 1
P457E Zone Group #7 Options C Default 1
P458E Zone Group #8 Options C Default 1
P459E Zone Group #9 Options C Default 1
P460E Zone Group #10 Options C Default 1
P461E Zone Group #11 Options C Default 1
P462E Zone Group #12 Options C Default 1
P463E Zone Group #13 Options C Default 1
P464E Zone Group #14 Options C Default 1
P465E Zone Group #15 Options C Default 1
P466E Zone Group #16 Options C Default 1

Zone Options C

1 = Send Multiple reports via dialler
2 = Sensorwatch Zone
3 = Zone is in Soak-test Mode
4 = Spare
5 = Spare
6 = Spare
7 = Spare
8 = Use second supervise timer # 2

P467E Zone Group #17 Options C Default 1
P468E Zone Group #18 Options C Default 1
P469E Zone Group #19 Options C Default 1
P470E Zone Group #20 Options C Default 1

Option 1 **Send Multiple reports via Dialler -** A zone with this option turned on will send multiple alarm reports via the dialler. If this option is off, the zone will only report one alarm per armed cycle. If the option "Send Restores at disarm only" (option 6 at P675E, P775E, P875E & P975E) is turned on, this option must be turned off for the function to work properly.

Option 2 **Sensorwatch Zone -** A zone with this option turned on will be monitored for Inactivity. Every time the zone is triggered during the disarmed state the Sensorwatch timer for this zone will be reset to zero. When the area that the zone is assigned to is armed, the Sensorwatch timer is stopped with the current time saved. On disarming of the area, the Sensorwatch timer for the zone will resume with the value saved when last armed. If the Sensorwatch time for the zone exceeds the programmed value at address P930E an alarm will be generated. This option is designed to warn if a zone has not been operated for sometime (possibly faulty or masked). The timer is normally in hours but can be set to minutes by turning on option 1 at P742E.

Option 3 **Soak Test Zone -** A zone with this option turned on will be put into soak-test mode. In soak test mode the zone cannot cause a normal alarm but any alarms when the system is armed will be recorded in the event memory. This mode is designed to monitor problem zones without causing an alarm.

Option 4-7 **Spare -**

Option 8 **Use second supervise timer # 2 -** If this option is off, a supervised radio device will use the first supervised timer # 1 (P919E). If the option is turned on, a supervised radio device will use supervise timer # 2 (P920E). This is useful when detectors with different supervise transmission time periods are used on the same system.

ZONE GROUP OPTIONS D - INPUT CONGIGURATION

P471E Zone Group #1 Options D Default 1
P472E Zone Group #2 Options D Default 1
P473E Zone Group #3 Options D Default 1
P474E Zone Group #4 Options D Default 1
P475E Zone Group #5 Options D Default 1
P476E Zone Group #6 Options D Default 1
P477E Zone Group #7 Options D Default 1
P478E Zone Group #8 Options D Default 1
P479E Zone Group #9 Options D Default 1
P480E Zone Group #10 Options D Default 1
P481E Zone Group #11 Options D Default 1
P482E Zone Group #12 Options D Default 1
P483E Zone Group #13 Options D Default 1
P484E Zone Group #14 Options D Default 1
P485E Zone Group #15 Options D Default 1
P486E Zone Group #16 Options D Default 1
P487E Zone Group #17 Options D Default 1
P488E Zone Group #18 Options D Default 1
P489E Zone Group #19 Options D Default 1
P490E Zone Group #20 Options D Default 1

Zone Options D
1 = Zone is Hardwired
2 = Zone uses 2k2 EOL resistor
3 = Zone is monitored for Tamper
4 = Zone is a Keyswitch
5 = Keyswitch Arms the Area
6 = Keyswitch is momentary
7 = Zone uses NC contact
8 = Zone is a Vibration detector

Option 1 **Zone is Hardwired -** If this option is turned on, the zone is hardwired. The panel will be looking for a signal from an ELITE 32EX expander board. If the option is turned off, the zone is a radio zone. The panel will be looking for a signal from a radio board. If set to hardwired (option 1 ON) the panel will not allow radio zone learn mode (P680E) to run as the zone is not set to a radio type.

Option 2 **Zone uses 2k2 EOL Resistor -** If this option is turned on, the hardwired zone must have a 2k2 resistor fitted to the zone input to seal the zone (type 2 input configuration on Page 6). If the option is turned off, the input needs to see a short circuit to 0V to seal the input (type 1 input configuration on Page 6).

Option 3 **Zone is Monitored for Tamper -** If this option is turned on, the panel requires a 2k2 resistor to seal the tamper and a 4k7 resistor is used for the zone (types 3 & 4 input configuration on Page 6). If the 2k2 resistor is shorted out or the input goes open circuit, a zone tamper will be generated. If the option is

turned off, the panel does not register a tamper alarm when the input goes short or open circuit.

Option 4 **Zone is a Keyswitch -** If this option is turned on, the zone will function as a keyswitch input. The keyswitch can be used to arm/disarm the alarm. A keyswitch can be used or it could be a contact from an access control system. If this option is off the input behaves as a normal zone.

Option 5 **Keyswitch Arms the Area -** If this option is turned on and the input is configured as a keyswitch (see above), when the keyswitch is operated, the assigned Area/s will be armed or disarmed. If this option is turned off, when the keyswitch is operated, the assigned Stay Mode Area/s will be armed or disarmed.

Option 6 **Keyswitch is Momentary -** If this option is turned on, the keyswitch should be a momentary type (briefly pulse the input to Arm or Disarm). If the option is turned off, the keyswitch should be a latching type.

Option 7 **Zone uses NC Contact -** This option only applies when the input is set for tamper monitoring (option 3 above). When monitoring for zone tamper the input requires a 2k2 and 4k7 resistor. The 4k7 resistor is the zone resistor (see page 6 for more details). If this option is turned on, the panel is looking to see the 4k7 shorted out when the zone is sealed (NC). If this option is turned off, the panel is looking to see the 4k7 resistor in circuit when sealed (NO).

Option 8 **Zone is a Vibration Detector -** If this option is turned on, the zone input has a special vibration mode setting applied. The sensitivity of the vibration mode setting is done at addresses P631E-P650E. If the option is turned off, the zone input has the normal response time set at address P750E.

ZONE GROUP RADIO SENSOR MODE

		Zone Radio Mode
P491E	Zone Group #1 Radio Mode - Default 0	0 = Generic
P492E	Zone Group #2 Radio Mode - Default 0	1 = Crow AE Battery Low
P493E	Zone Group #3 Radio Mode - Default 0	2 = Crow AE Reed Switch
P494E	Zone Group #4 Radio Mode - Default 0	3 = Crow Merlin - Supervised signal ignored
P495E	Zone Group #5 Radio Mode - Default 0	4 = Crow Merlin - Supervised signal active
P496E	Zone Group #6 Radio Mode - Default 0	5 = FreeWave Protocol with Checksum - Supervised
P497E	Zone Group #7 Radio Mode - Default 0	6 = FreeWave Protocol with Checksum - Non-supervised
P498E	Zone Group #8 Radio Mode - Default 0	11 = Ness battery low
P499E	Zone Group #9 Radio Mode - Default 0	12 = Ness Reed Switch
P500E	Zone Group #10 Radio Mode - Default 0	31 = Visonic K980W PIR
P501E	Zone Group #11 Radio Mode - Default 0	32 = Powercode - Supervised signal ignored
P502E	Zone Group #12 Radio Mode - Default 0	33 = Powercode - Supervised signal Active
P503E	Zone Group #13 Radio Mode - Default 0	
P504E	Zone Group #14 Radio Mode - Default 0	
P505E	Zone Group #15 Radio Mode - Default 0	
P506E	Zone Group #16 Radio Mode - Default 0	
P507E	Zone Group #17 Radio Mode - Default 0	
P508E	Zone Group #18 Radio Mode - Default 0	
P509E	Zone Group #19 Radio Mode - Default 0	
P510E	Zone Group #20 Radio Mode - Default 0	

Option 0 **Radio detector type "0" -** If the radio device loaded against a zone has no special bits such as tampers/battery low, etc then program the radio type as 0 (generic). In this case as long as the code received is always the same as the learnt code, the panel will always respond correctly to a transmission from the wireless device.

Option 1 & 2 **AE Protocol -** If the wireless device is an AE PIR, then setting the radio type to 1 will allow it to accept the battery low signal correctly when transmitted. If the device is an AE reed switch then setting the option to 2 will accept both the open and closed signals plus the battery low.

Option 3 & 4 **Crow Merlin Protocol -** If the wireless device is the Crow Merlin PIR then setting option 3 will allow the alarm/tamper & battery low signals to be received correctly but the supervised signal will be ignored. By setting it to option 4, all signals from the Merlin including the supervised signal will be monitored correctly.

Option 5 & 6 **Crow FreeWave Protocol -** If the wireless device is the Crow FreeWave PIR or wireless Reed Switch then setting option 6 will allow the alarm/tamper & battery low signals plus the open & closed signal from the Reed Switch to be received correctly but the supervised signal will be ignored. By setting option 5 on all signals from the FreeWave PIR or Reed Switch including the supervised signal will be monitored correctly.

Option 11 & 12 **Ness Protocol -** If the wireless device is the Ness PIR then setting the option to 11 will allow the alarm and battery low from the PIR to be processed correctly. If the device is the Ness wireless reed switch then setting the option to 12 will allow the open/close & battery low signals to be processed correctly.

Option 31 **Visonic K980W Protocol -** If the wireless device is the Visonic K980W PIR then setting the option to 31 will allow the alarm/tamper & battery low signals to be received correctly.

Option 32 & 33 **Powercode Protocol -** If the wireless device is the Powercode PIR or wireless reed switch then setting the option to 32 will allow the alarm/tamper & battery low signals plus the open & closed signal from the reed switch to be received correctly but the supervised signal will be ignored. By setting the option to 33, all signals from the Powercode PIR or Reed switch including the supervised signal will be monitored correctly.

ZONE GROUP VOICE MESSAGE NUMBER

If you want the panel to play a custom voice message over the telephone when reporting a voice alarm then select the message number at these addresses. The selected messages must first be pre-programmed into the optional Voice Board. If the value is left at "0" the panel will not report any alarm messages for that zone group when set to Voice Reporting. To enable reporting of these voice messages, "Speech Dialler" format must be selected for the telephone number/s used (P837E-P842E Option 4). A value of 0-99 can be entered in these fields.

P511E Zone Group #1 Voice Message # - Default 0
P512E Zone Group #2 Voice Message # - Default 0
P513E Zone Group #3 Voice Message # - Default 0
P514E Zone Group #4 Voice Message # - Default 0
P515E Zone Group #5 Voice Message # - Default 0
P516E Zone Group #6 Voice Message # - Default 0
P517E Zone Group #7 Voice Message # - Default 0
P518E Zone Group #8 Voice Message # - Default 0
P519E Zone Group #9 Voice Message # - Default 0
P520E Zone Group #10 Voice Message # - Default 0
P521E Zone Group #11 Voice Message # - Default 0
P522E Zone Group #12 Voice Message # - Default 0
P523E Zone Group #13 Voice Message # - Default 0
P524E Zone Group #14 Voice Message # - Default 0
P525E Zone Group #15 Voice Message # - Default 0
P526E Zone Group #16 Voice Message # - Default 0
P527E Zone Group #17 Voice Message # - Default 0
P528E Zone Group #18 Voice Message # - Default 0
P529E Zone Group #19 Voice Message # - Default 0
P530E Zone Group #20 Voice Message # - Default 0

ZONE GROUP ENTRY DELAY TIME

This is the entry delay time all zones assigned with this group number will use when armed. If the alarm is disarmed before the delay expires then no alarm will be generated. The delay also applies to 24 hour zones. A zero means there is no entry delay. The range allowed is 0-9999 seconds.

P531E Zone Group #1 Entry Delay - Default 20
P532E Zone Group #2 Entry Delay - Default 0
P533E Zone Group #3 Entry Delay - Default 0
P534E Zone Group #4 Entry Delay - Default 0
P535E Zone Group #5 Entry Delay - Default 0
P536E Zone Group #6 Entry Delay - Default 0
P537E Zone Group #7 Entry Delay - Default 0
P538E Zone Group #8 Entry Delay - Default 0
P539E Zone Group #9 Entry Delay - Default 0
P540E Zone Group #10 Entry Delay - Default 0
P541E Zone Group #11 Entry Delay - Default 0
P542E Zone Group #12 Entry Delay - Default 0
P543E Zone Group #13 Entry Delay - Default 0
P544E Zone Group #14 Entry Delay - Default 0
P545E Zone Group #15 Entry Delay - Default 0
P546E Zone Group #16 Entry Delay - Default 0
P547E Zone Group #17 Entry Delay - Default 0

P548E Zone Group #18 Entry Delay - Default 0
P549E Zone Group #19 Entry Delay - Default 0
P550E Zone Group #20 Entry Delay - Default 0

ZONE GROUP DIALLING SCENARIO NUMBER

There are four dialling scenarios that can be programmed allowing the option of having different zones report to different monitoring stations. Alternatively, you could have some zones report to a monitoring station and some plant alarms report using voice messages to a technicians mobile telephone. A value of 0-4 can be entered in these fields. A value of 0 means that the zone group will not report alarms via the dialler.

P551E Zone Group #1 Scenario # - Default 1
P552E Zone Group #2 Scenario # - Default 1
P553E Zone Group #3 Scenario # - Default 1
P554E Zone Group #4 Scenario # - Default 1
P555E Zone Group #5 Scenario # - Default 1
P556E Zone Group #6 Scenario # - Default 1
P557E Zone Group #7 Scenario # - Default 1
P558E Zone Group #8 Scenario # - Default 1
P559E Zone Group #9 Scenario # - Default 1
P560E Zone Group #10 Scenario # - Default 1
P561E Zone Group #11 Scenario # - Default 1
P562E Zone Group #12 Scenario # - Default 1
P563E Zone Group #13 Scenario # - Default 1
P564E Zone Group #14 Scenario # - Default 1
P565E Zone Group #15 Scenario # - Default 1
P566E Zone Group #16 Scenario # - Default 1
P567E Zone Group #17 Scenario # - Default 1
P568E Zone Group #18 Scenario # - Default 1
P569E Zone Group #19 Scenario # - Default 1
P570E Zone Group #20 Scenario # - Default 1

ZONE GROUP ALARM CONTACT ID REPORTING CODE

When a zone group reports an alarm to a monitoring station using Contact ID, the default event code is 130 for “Burglar Alarm”. Should you require some zone groups to report alarms as Fire, Medical, Plant, etc, you can change the event code transmitted using these addresses.

P571E Zone Group #1 Contact ID Alarm Code (Default = 130)
P572E Zone Group #2 Contact ID Alarm Code (Default = 130)
P573E Zone Group #3 Contact ID Alarm Code (Default = 130)
P574E Zone Group #4 Contact ID Alarm Code (Default = 130)
P575E Zone Group #5 Contact ID Alarm Code (Default = 130)
P576E Zone Group #6 Contact ID Alarm Code (Default = 130)
P577E Zone Group #7 Contact ID Alarm Code (Default = 130)
P578E Zone Group #8 Contact ID Alarm Code (Default = 130)
P579E Zone Group #9 Contact ID Alarm Code (Default = 130)
P580E Zone Group #10 Contact ID Alarm Code (Default = 130)
P581E Zone Group #11 Contact ID Alarm Code (Default = 130)
P582E Zone Group #12 Contact ID Alarm Code (Default = 130)
P583E Zone Group #13 Contact ID Alarm Code (Default = 130)
P584E Zone Group #14 Contact ID Alarm Code (Default = 130)
P585E Zone Group #15 Contact ID Alarm Code (Default = 130)
P586E Zone Group #16 Contact ID Alarm Code (Default = 130)
P587E Zone Group #17 Contact ID Alarm Code (Default = 130)
P588E Zone Group #18 Contact ID Alarm Code (Default = 130)
P589E Zone Group #19 Contact ID Alarm Code (Default = 130)
P590E Zone Group #20 Contact ID Alarm Code (Default = 130)

ZONE GROUP CONTACT ID TAMPER REPORTING CODE

When a zone tamper reports an alarm to a monitoring station using Contact ID, the default event code is 137 for “Tamper”. Should you require some zone group tampers to report a different code, you can change the event code transmitted using these addresses.

P591E Zone Group #1 Contact ID Tamper Code (Default = 137)
P592E Zone Group #2 Contact ID Tamper Code (Default = 137)
P593E Zone Group #3 Contact ID Tamper Code (Default = 137)
P594E Zone Group #4 Contact ID Tamper Code (Default = 137)
P595E Zone Group #5 Contact ID Tamper Code (Default = 137)
P596E Zone Group #6 Contact ID Tamper Code (Default = 137)
P597E Zone Group #7 Contact ID Tamper Code (Default = 137)
P598E Zone Group #8 Contact ID Tamper Code (Default = 137)
P599E Zone Group #9 Contact ID Tamper Code (Default = 137)
P600E Zone Group #10 Contact ID Tamper Code (Default = 137)
P601E Zone Group #11 Contact ID Tamper Code (Default = 137)
P602E Zone Group #12 Contact ID Tamper Code (Default = 137)
P603E Zone Group #13 Contact ID Tamper Code (Default = 137)
P604E Zone Group #14 Contact ID Tamper Code (Default = 137)
P605E Zone Group #15 Contact ID Tamper Code (Default = 137)
P606E Zone Group #16 Contact ID Tamper Code (Default = 137)
P607E Zone Group #17 Contact ID Tamper Code (Default = 137)
P608E Zone Group #18 Contact ID Tamper Code (Default = 137)
P609E Zone Group #19 Contact ID Tamper Code (Default = 137)
P610E Zone Group #20 Contact ID Tamper Code (Default = 137)

ZONE GROUP REPORTING ACCOUNT NUMBER

If a zone is in more than one Area, this address allows you to program which account code it will use when reporting alarms.(1 = Area A, 2 = Area B, 3 = Area C, 4 = Area D). If a zone is only in one area it will automatically default to reporting to that area (eg if only in area C, the zone will report to the area C account). If it is in 2 or more areas however it will always report to area A unless changed at this address (eg if a zone was in areas B & C but the zone group option below for that zone was set to 1, the zone will report to the area A account). In this example you would need to decide which account you want the zone to report to and change it to a value of 2 or 3. Also, when a zone is in 2 or more areas the area associated with the zone below will be used in the memory to record the area for that zone.

P611E Zone Group #1 Account # - Default 1
P612E Zone Group #2 Account # - Default 1
P613E Zone Group #3 Account # - Default 1
P614E Zone Group #4 Account # - Default 1
P615E Zone Group #5 Account # - Default 1
P616E Zone Group #6 Account # - Default 1
P617E Zone Group #7 Account # - Default 1
P618E Zone Group #8 Account # - Default 1
P619E Zone Group #9 Account # - Default 1
P620E Zone Group #10 Account # - Default 1
P621E Zone Group #11 Account # - Default 1
P622E Zone Group #12 Account # - Default 1
P623E Zone Group #13 Account # - Default 1
P624E Zone Group #14 Account # - Default 1
P625E Zone Group #15 Account # - Default 1
P626E Zone Group #16 Account # - Default 1
P627E Zone Group #17 Account # - Default 1
P628E Zone Group #18 Account # - Default 1
P629E Zone Group #19 Account # - Default 1
P630E Zone Group #20 Account # - Default 1

ZONE GROUP VIBRATION SENSITIVITY

If the zone group is set to vibration mode (P471E-P490E Option 8 on) then the sensitivity is set at this address. The sensitivity range is from 1-8 where 1 = Highest Sensitivity and 8 = Lowest Sensitivity setting.

P631E Zone Group #1 Vibration Sensitivity - Default 1
P632E Zone Group #2 Vibration Sensitivity - Default 1
P633E Zone Group #3 Vibration Sensitivity - Default 1
P634E Zone Group #4 Vibration Sensitivity - Default 1
P635E Zone Group #5 Vibration Sensitivity - Default 1
P636E Zone Group #6 Vibration Sensitivity - Default 1
P637E Zone Group #7 Vibration Sensitivity - Default 1

P638E Zone Group #8 Vibration Sensitivity - Default 1
P639E Zone Group #9 Vibration Sensitivity - Default 1
P640E Zone Group #10 Vibration Sensitivity - Default 1
P641E Zone Group #11 Vibration Sensitivity - Default 1
P642E Zone Group #12 Vibration Sensitivity - Default 1
P643E Zone Group #13 Vibration Sensitivity - Default 1
P644E Zone Group #14 Vibration Sensitivity - Default 1
P645E Zone Group #15 Vibration Sensitivity - Default 1
P646E Zone Group #16 Vibration Sensitivity - Default 1
P647E Zone Group #17 Vibration Sensitivity - Default 1
P648E Zone Group #18 Vibration Sensitivity - Default 1
P649E Zone Group #19 Vibration Sensitivity - Default 1
P650E Zone Group #20 Vibration Sensitivity - Default 1

NORMAL ZONE RESPONSE TIME FOR THE HARDWIRED ZONES.

P750E 1-31E. Default = 6

The Zone Response Time is the period that the zone input must be continuously unsealed before an alarm is registered. The Response range is from approximately 50ms to 1.5 seconds. Setting the value to 1 will give a zone response time of 50ms. Setting it to a value of 31 will give a zone response time of 1.5 seconds. Normally the default value of 6 is satisfactory (approximately 300ms) but if required the time can be increased by programming a higher number at this address. The maximum value allowed is a count of 31.

PROGRAMMING AREAS - Areas A,B,C & D

AREA "A" PRIMARY OUTPUT OPTIONS - P651E - P658E
AREA "B" PRIMARY OUTPUT OPTIONS - P751E - P758E
AREA "C" PRIMARY OUTPUT OPTIONS - P851E - P858E
AREA "D" PRIMARY OUTPUT OPTIONS - P951E - P958E

The addresses above allow a number Area based options to be assigned to any of the 8 outputs. Address P651 relates to Output 1 options for Area A, address P751 relates to Output 1 options for Area B, address P851 relates to Output 1 options for Area C and address P951 relates to Output 1 options for Area D.

P651E **1** = **Armed zone alarms to output #1**
2 = Stay Mode alarms to output #1
3 = Pendant chirps to output #1
4 = All zones sealed indication to output #1
5 = 2 second pulse on arming or disarming to output #1
6 = Chime zone alarms to output #1
7 = Spare
8 = Spare

Option 1 **Armed zone alarms to output #1** - This option will map zone alarms during the Armed state from Area "A" to output #1.

Option 2 **Stay Mode alarms to output #1** - This option will map alarms from zones defined as Area "A" Stay Mode to output #1. Zones are defined as being in Stay Mode at addresses P411E-P430E option 5.

Option 3 **Pendant Chirps to output #1** - This option will map one short pulse (Chirp) to output #1 when Area "A" is armed via a radio key (Pendant) and two short pulses to output #1 when Area "A" is disarmed by a radio key. The length of the pulses (Chirps) are set by the pulse timer (P921E) for this output.

Option 4 **All zones sealed indication to output #1** - This option will map an Area "A" “Ready” indication to output #1. The Output will be off (Ready) when all zones in the area are sealed.

Option 5 **2 second pulse to output #1 on arming or disarming** - This option will map a 2 second pulse to Output #1 each time Area "A" is armed or disarmed as defined at P671E options 6&7.

Option 6 **Chime zone alarms to output #1** - This option will map alarms from Area "A" zones defined as Chime zones to output #1. Zones are programmed as Chime zones at P411E-P430E option 8. Chime zones are those which normally operate only during periods when the Area is disarmed and are used as door bells, shop minders, etc. A Chime zone will normally be part of the alarm when armed unless it is programmed as a Permanent Chime zone at P431E-P450E option 4. A Permanent Chime zone will always work as a Chime zone and will never cause an alarm when armed.

Note: P652E through P658E are as above but apply to outputs 2-8 for Area A
Note: P751E through P758E are as above but apply to outputs 1-8 for Area B
Note: P851E through P858E are as above but apply to outputs 1-8 for Area C
Note: P951E through P958E are as above but apply to outputs 1-8 for Area D

AREA "A" SECONDARY AREA OUTPUT OPTIONS - P661E - P668E
AREA "B" SECONDARY AREA OUTPUT OPTIONS - P761E - P768E
AREA "C" SECONDARY AREA OUTPUT OPTIONS - P861E - P868E
AREA "D" SECONDARY AREA OUTPUT OPTIONS - P961E - P968E

The addresses above allow a number of secondary Area based options to be assigned to any of the 8 outputs. Address P661 relates to Output 1 options for Area A, address P761 relates to Output 1 options for Area B, address P861 relates to Output 1 options for Area C and P961 relates to Output 1 options for Area D.

P661E **1 = Any Bypass to output #1**
2 = Auto-Bypass warning to output #1
3 = Entry beeps to output #1
4 = Exit beeps to output #1

5 = Arm indication to output #1
6 = Stay Mode Arm indication to output #1
7 = Disarm indication to output #1
8 = Spare

Option 1 **Any Bypass to output #1** - When this option is turned on, if any zones are bypassed, either manually or automatically, the output will turn on. The bypass indication will occur at the end of the exit delay. The output reset time (P901E) should be set to zero when this option is enabled.

Option 2 **Auto-Bypass warning to output #1** - This option will produce a 2 second pulse at output #1 at the end of the exit period if a zone has been Auto-Bypassed in Area "A". An Auto-Bypass occurs when a zone is left un-sealed at the end of the exit delay. At the end of the exit delay, zones not defined as Auto-Bypass which are left un-sealed, will produce an alarm. Auto-Bypass assignments are found at P411E- P430E option 7.

Option 3 **Entry beeps to output #1** - This option will map the Area A entry beeps to output #1.

Option 4 **Exit beeps to output #1** - This option will map the Area A exit beeps to output #1.

Option 5 **Arm indication to output #1** - This option will turn output #1 on when Area "A" is armed and turn output #1 off when Area "A" is disarmed. The Output Arm indication occurs at the start of the exit delay (ie immediately the area is armed). The output reset time should be set to latching (ie P901E0E).

Option 6 **Stay Mode Arm indication to output 1** - This option will turn output #1 on when Area "A" is placed in Stay Mode and turn output #1 off when Area "A" Stay Mode is turned off. Like option 5 the Output turns on at the start of the exit delay. The output reset time should be set to latching (ie P901E0E).

Option 7 **Disarm indication to output #1 -** This option will turn output #1 on when Area "A" is disarmed either from Full Arm or Stay Mode and turn output #1 off when Area "A" is Armed or in Stay Mode. The Output turns on when Area “A” is disarmed and will turn off at the start of the entry delay. The output reset time should be set to latching (P901E0E)

Note: P662E through P668E are as above but apply to outputs 2-8 for Area A
Note: P761E through P768E are as above but apply to outputs 1-8 for Area B
Note: P861E through P868E are as above but apply to outputs 1-8 for Area C
Note: P961E through P968E are as above but apply to outputs 1-8 for Area D

SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA A - P659E & P660E
SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA B - P759E & P760E
SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA C - P859E & P860E
SPECIAL AREA ARM & STAY BUTTON OPTIONS FOR AREA D - P959E & P960E

P659E 1-8 **"ARM" key can disarm Area “A” during exit delay** - If this option is turned on, the one key disarm feature during exit delay (using the “ARM” button), is enabled for the keypad. Options 1-8 represent keypads 1-8.

P660E 1-8 **"STAY" key can disarm Area “A” during Stay Mode** - This option enables single button disarm of Stay mode at all times using the "STAY" button. Options 1-8 represent keypads 1-8

Note: P759E & P760E are as above but apply to keypads in Area B
Note: P859E & P860E are as above but apply to keypads in Area C
Note: P959E & P960E are as above but apply to keypads in Area D

AREA "A" TIME ZONE AUTO ARM/DISARM OPTIONS - P669E
AREA "B" TIME ZONE AUTO ARM/DISARM OPTIONS - P769E
AREA "C" TIME ZONE AUTO ARM/DISARM OPTIONS - P869E
AREA "D" TIME ZONE AUTO ARM/DISARM OPTIONS - P969E

P669E 1-8 **Time Zone to use for Auto Arm or Disarm of Area “A”** - This option will determine which Time-zone/s will be used to automatically Arm or Disarm Area "A". For auto-arm/disarm to work, options 1 and/or 2 at address P672E must be turned on. You can select more than one time-zone if required, eg you could program time-zone #1 to be Monday-Friday from 08:30-17:00, and time-zone #2 to be Saturday from 09:00-12:00, then assign both time-zones to Area “A”

Note: P769E is the same as above but applies to Area B Time Zone Arm/Disarm
Note: P869E is the same as above but applies to Area C Time Zone Arm/Disarm
Note: P969E is the same as above but applies to Area D Time Zone Arm/Disarm

AREA "A" MISCELLANEOUS KEYPAD OPTIONS - P670E
AREA "B" MISCELLANEOUS KEYPAD OPTIONS - P770E
AREA "C" MISCELLANEOUS KEYPAD OPTIONS - P870E
AREA "D" MISCELLANEOUS KEYPAD OPTIONS - P970E

P670E 1 = Cannot Arm if not Ready (Zone/s unsealed)
2 = "Arm" key required before code to arm
3 = "Stay" key required before code to arm Stay Mode
4 = "Code" required to arm area
5 = "Code" required to "Bypass"
6 = "Control/Chime" Button disables "Chime" mode
7 = Spare
8 = Cannot arm if Supervise fail active

Option 1 **Cannot Arm if not Ready (Zone/s unsealed) -** If this option is turned on it will inhibit arming of Area "A" if any zone in area A is unsealed (Not Ready). If the option is off, the area can be armed with zones unsealed but the panel will either auto-bypass the zone or go into alarm at the end of the exit delay depending upon other option settings. If required, certain zones can be exempted from this feature if they are in low security areas, allowing the area to be armed with a zone/s unsealed, by programming the zone group option at addresses P431E-P450E option 7. This feature does not apply to Stay mode.

Option 2 "**Arm" key required before code to arm** - If this option is turned on, the "ARM" key must be pressed before the code to arm Area "A". This option should be enabled where the keypad is assigned to more than one area.

Option 3 "**Stay" key required before code to arm Stay Mode** - If this option is turned on, the "STAY" key must be pressed before the code to arm Area "A" Stay Mode. This option should be enabled where the keypad is assigned to more than one area. If this option is turned off, Stay mode is armed by pressing the Stay button only. When Arming Stay Mode, if the user presses the "Enter" button during the exit delay, this will cancel any remaining exit delay time and make all Stay zones instant, even if they have an entry delay time programmed. The cancelled delays will only apply for that armed period.

Option 4 "**Code" required to arm area** - If this option is off the area can be armed with a single press of the "Arm" button, i.e. code not required to arm. If this option is on, a valid Area "A" user code is required to arm the area and the single button arming is disabled.

Option 5 "**Code" required to "bypass" zones** - If this option is off, any zone that is allowed to be Bypassed can be bypassed by simply pressing the Bypass button, i.e. no code is required. If this option is on, a valid Area "A" user code must be entered following pressing of the "Bypass" button to allow zone bypasses to occur. When bypassing zones, the user code must be assigned to the same area as the zone otherwise they will not be allowed to bypass the zone.

Option 6 **"Control/Chime" Button disables "Chime" mode** - If this option is enabled, pressing the "CHIME" button (Crow keypad) or pressing the "CONTROL" button followed by the "PROGRAM" button (AAP keypad) for two seconds will disable the chime alarms for the area assigned to the keypad. When chime mode is disabled the "CHIME OFF" message will appear on the LCD display. To restore the chime function simply press the CHIME or CONTROL & PROGRAM buttons again. If this option is turned off, then Chime mode cannot be disabled at the keypad.

Option 7 **Spare**

Option 8 **Cannot arm if Supervise fail active -** If there is a wireless detector in this Area that has failed on the supervise timer (P919E or P920E) and this option is turned on, arming of Area "A" will be inhibited until the supervise alarm has been reset. If the option is off, the area can be armed during a supervise fail condition.

Note: P770E is the same as above but applies to Area B Keypad options
Note: P870E is the same as above but applies to Area C Keypad options
Note: P970E is the same as above but applies to Area D Keypad options

AREA "A" MISCELLANEOUS OPTIONS 2 - P671E
AREA "B" MISCELLANEOUS OPTIONS 2 - P771E
AREA "C" MISCELLANEOUS OPTIONS 2 - P871E
AREA "D" MISCELLANEOUS OPTIONS 2 - P971E

P671E 1 = Near & Verified Alarms
4 = Pendant chirps on Arm/Disarm
5 = Pendant chirps on Stay Mode Arm/Disarm
6 = 2 second pulse on Arm
7 = 2 second pulse on Disarm
8 = Cannot Arm if System Battery is Low

Option 1 **Near & Verified Alarms** - If this option is turned off the zone alarms for the area will report normally (ie sending a 130 event code). If the option is turned on the panel will require two alarms on different zones within a 45 minute period before a full alarm will be sent. If this option is turned on it applies to all zones assigned to that area. An alarm on a single zone will send a CID (Contact ID) Near Alarm report to the monitoring station. If no further alarms occur within 45 minutes (and the zone that activated is sealed) the near alarm timer is reset and a restore is sent for the zone that activated. If the zone that activated is still unsealed when the 45 minute timer expires, a zone bypass for that zone will be sent and the zone will remain bypassed until the area is disarmed. Any new alarms after the timer has expired will send another Near Alarm report. If a second alarm on a different zone occurs within 45 minutes of the Near alarm, an Intrusion Verified alarm report will be sent. Turning this option on will stop zone alarms from being reported in Domestic & Voice formats as there are no messages for near and confirmed alarms. You must turn this option off if using Domestic or Voice formats.

Option 2&3 Spare -

Option 4 **Pendant Chirps on Arm/Disarm** - This option will send one short pulse (Chirp) to an output programmed with option 3 on at P651E-P658E when Area "A" is armed via a radio key (Pendant) and two short pulses to the output when Area "A" is disarmed by a radio key.

Option 5 **Pendant Chirps on Stay Mode Arm/Disarm** - This option will send one short pulse (Chirp) to an output programmed with option 3 on at P651E-P658E when Stay Mode for Area "A" is armed with a radio key (Pendant) and two short pulses to the output when Area "A" Stay Mode is disarmed by a radio key.

Option 6 **2 second pulse on Arm** - If this option is on, any output with option 5 on at addresses P651E-P658E will turn on for 2 seconds when Area "A" is armed.

Option 7 **2 second pulse on Disarm** - If this option is on, any output with option 5 on at addresses P651E-P658E will turn on for 2 seconds when Area "A" is disarmed.

Option 8 **Cannot Arm if System Battery is Low** - If this option is on, the Area cannot be armed if the system Battery is Low. If the Option is off, the area may be armed even if the system Battery is Low.

Note: P771E is the same as above but applies to Area B Miscellaneous options 2
Note: P871E is the same as above but applies to Area C Miscellaneous options 2
Note: P971E is the same as above but applies to Area D Miscellaneous options 2

AREA "A" TIME AND DELAY OPTIONS - P672E
AREA "B" TIME AND DELAY OPTIONS - P772E
AREA "C" TIME AND DELAY OPTIONS - P872E
AREA "D" TIME AND DELAY OPTIONS - P972E

P672E 1 = Arm area when time zone ends
2 = Disarm area when time zone starts
3 = Disable stay mode exit delay
4 = Disable arm mode exit delay
5 = Disable stay mode entry delay
6 = Disable arm mode entry delay
7 = Use special stay mode entry delay
8 = Report alarms and bypasses in stay mode via Dialler

Option 1 **Arm area when time zone ends** - this option will automatically arm area "A" when the time-zone/s programmed at address P669E ends.

Option 2 **Disarm area when the time zone starts** - this option will automatically disarm area "A" when the time-zone/s programmed at address P669E starts.

Option 3 **Disable stay mode exit delay** - If this option is on the exit delay for area "A" becomes “0” when arming stay mode (the delay will still apply to full arm unless option 4 is also on).

Option 4 **Disable arm mode exit delay** - If this option is on the exit delay for area "A" becomes “0” when arming the panel (the delay will still apply to stay mode unless option 3 is also on).

Option 5 **Disable stay mode entry delay** - If this option is on then all zones are instant in stay mode regardless of any entry delays programmed to zones (entry delays will still apply to zones in full arm mode unless option 6 is also on).

Option 6 **Disable arm mode entry delay** - If this option is on then all zones are instant in full arm mode regardless of any entry delays programmed to zones (entry delays will still apply to zones in stay mode unless option 5 is also on).

Option 7 **Use special stay mode entry delay -** If this option is on then all Area “A” Stay mode zones use the special Stay Mode entry delay (P985E) in stay mode and the normal delays programmed at addresses P531E-P550E are ignored. The normal delay will still apply during the normal Armed state.

Option 8 **Send alarms and bypasses in stay mode -** If this option is on then all alarms and zone bypasses in Stay mode will be reported via the dialler in Contact ID. If the option is turned off, no alarm or bypasses will be reported when using Stay Mode. Only zone alarms will be reported if using Domestic/ Voice or Pager reporting formats. You should also note that if a Stay mode alarm is not kissed off in Domestic/ Voice or Pager mode and the alarm is not disarmed, when the dialler test time comes around, the unreported zone alarms will report again. If this is not desired you can stop this from happening by turning off all days for the test time at address P816E.

Note: P772E is the same as above but applies to Area B Time & Delay options
Note: P872E is the same as above but applies to Area C Time & Delay options
Note: P972E is the same as above but applies to Area D Time & Delay options

AREA “A” DIALLER REPORTING OPTIONS - P675E
AREA “B” DIALLER REPORTING OPTIONS - P775E
AREA “C” DIALLER REPORTING OPTIONS - P875E
AREA “D” DIALLER REPORTING OPTIONS - P975E

P675E **1 = Send Arm/Disarm**
2 = Send Stay Mode Arm/Disarm
3 = Send Disarm only after activations
4 = Send Stay Disarm only after activations
5 = Send Arm at the end of the exit delay
6 = Send all zone restores when disarmed
7 = Spare
8 = Spare

Option 1 **Send Arm/Disarm** - If this option is on, the dialler will report Area "A" arms and disarms.

Option 2 **Send Stay Mode Arm/Disarm** - If this option is on, the dialler will report Area "A" stay mode arms and disarms.

Option 3 **Send Disarm only after activation** - If this option is on, the dialler will report an Area A disarm following an alarm activation. If there is no alarm, there will be no arm or disarm reports. This option is often used in conjunction with alarm only reporting and stops the normal arm/disarm signals from being sent. If this option is on it will override the option 1 setting.

Option 4 **Send Stay Mode Disarm only after activation** - If this option is on, the dialler will report an Area A Stay Mode disarm following an alarm activation. If there is no alarm, there will be no Stay Mode arm or disarm reports. This option is often used in conjunction with alarm only reporting and stops the normal Stay Mode arm/disarm signals from being sent. If this option is on it will override the option 2 setting.

Option 5 **Send Arm at the end of the exit delay** - If this option is Off, the dialler will report an Arm immediately the panel is armed. If the option is On, the Arm report is sent at the expiry of the exit delay. If the alarm is disarmed before the exit delay expires, no Arm or Disarm signals will be sent.

Option 6 **Send all zone restores when disarmed -** If this option is off, the dialler will send all zone restores as they occur. If the option is on, the dialler will send all zone restores only when the panel is disarmed. If the option is On, only one restore will be sent for each zone that activates regardless of whether the zones can send multiple alarm reports. If you do not want to get multiple alarms with only one restore on disarming then you should turn off option 1 at addresses P451E-P470E (ie disable multiple reporting).

P775E **Area "B" Reporting Options** - (see above for details)
P875E **Area "C" Reporting Options** - (see above for details)
P975E **Area "D" Reporting Options** - (see above for details)

AREA "A" DIALLER ACCOUNT NUMBER - P676E
AREA "B" DIALLER ACCOUNT NUMBER - P776E
AREA "C" DIALLER ACCOUNT NUMBER - P876E
AREA "D" DIALLER ACCOUNT NUMBER - P976E

The account number is a four digit number that is sent every time the dialler reports alarms in Contact ID or 4+2 mode. The special characters of B,C,D,E & F can be programmed as any of the 4 digits of the account code (see chart on page 62 for details).

AREA "A" ARM/DISARM REPORTING SCENARIO NUMBER - P677E
AREA "B" ARM/DISARM REPORTING SCENARIO NUMBER - P777E
AREA "C" ARM/DISARM REPORTING SCENARIO NUMBER - P877E
AREA "D" ARM/DISARM REPORTING SCENARIO NUMBER - P977E

The Arm/Disarm Scenario number is the telephone number or numbers that the panel will report to when sending the Arm & Disarm signals for each Area.

AREA "A" LATCHKEY DISARM REPORTING SCENARIO NUMBER - P678E
AREA "B" LATCHKEY DISARM REPORTING SCENARIO NUMBER - P778E
AREA "C" LATCHKEY DISARM REPORTING SCENARIO NUMBER - P878E
AREA "D" LATCHKEY DISARM REPORTING SCENARIO NUMBER - P978E

The Latchkey Disarm Scenario number is the telephone number or numbers that the panel will report to when sending the Disarm signal following a Latchkey disarm. The format that the panel will send is also programmable via the telephone number/s used e.g. this report would most likely use the Voice reporting format.

PROGRAMMING RADIO ZONES

ENROLLING RADIO DETECTORS - P680E 1-64E

This address is where radio PIR's, Reed switches and other wireless detectors are enrolled into the panel and assigned to zones. For the zone learn function to work the assigned zone group must have option 1 at P471E-P490E turned off for the zone to be able to learn a radio code.

For example;	P680E2E	Learn Radio Zone #2
	P680E3E	Learn Radio Zone #3
	P680E64E	Learn Radio Zone #64

To load a radio detector whilst in installer program mode, for example Zone 1, press P680E1E. The keypad will beep at 1 second intervals and the green learn mode LED on the Radio receiver board (RX-16) will flash on & off. Trigger the detector you wish to enrol at this address (Zone 1). The keypad will stop beeping and the receiver learn LED will turn off when the detectors unique code has been stored. Repeat this sequence for all of the radio detectors selecting the address which corresponds to the zone you require (eg P680E2E for zone 2, P680E34E for zone 34, etc). Remember: for a radio zone to work it MUST have a Zone Group assigned at addresses P341E-P404E that has the correct detector type set (P491E-P510E) and it must be a radio zone (P471E-P490E option 1 off).

If the Zone Group assigned to the zone is set to a radio device type that incorporates a tamper switch (e.g. Type #5 "Crow FreeWave protocol" at addresses P491E-P510E), then the panel will only learn the code on the tamper alarm transmission. If the radio device type for the assigned group is "0" the panel will load on any transmission.

To delete a single radio code location, repeat the learning process above but while in learn mode press the "Enter" button with no transmitters operating, and this will remove any radio code from that address.

PROGRAMMING RADIO KEYS

ENROLLING RADIO KEYS - P690E 21-100E

We refer to wireless handheld transmitters as "Radio Keys". The panel recognises each button on the transmitter as a separate user so that different functions can be assigned to individual buttons. If you were loading a four button radio key, you would actually be enrolling 4 separate radio users.

(Users 21-100 can be programmed as Radio Keys. If a User is programmed as a Radio Key, that User slot is not available as a Code User).

To load a radio key whilst in installer program mode, for example radio key 21, press P690E21E. The keypad will beep at 1 second intervals and the green learn mode LED on the Radio receiver board (RX-16) will flash on & off. Trigger the transmitter you wish to enrol at this address (Radio key 21). The keypad will stop beeping and the receiver learn LED will turn off when the transmitters unique code has been stored. Repeat this sequence for all of the radio keys selecting the address which corresponds to the User you require.

For example;	P690E22E	Radio Key #22
	P690E23E	Radio Key #23
	P690E100E	Radio Key #100

To delete a single radio key, repeat the learning process above but while in learn mode press the "Enter" button with no transmitters operating, and this will remove any radio key code from that address.

ERASING INDIVIDUAL RADIO CODES WHILE TRANSMITTING - P700E

P700E Erase a Transmitted radio code from All Memory Locations

When erase mode is started and the panel gets a code from the receiver, if that code exists in memory and its radio device type is "0", the code will be erased from memory. If the code found in memory has a radio device type that incorporates a tamper switch, e.g. Type #5 "Crow FreeWave protocol", then the panel will only erase on the tamper alarm transmission.

ITA RECEIVED SIGNAL STRENGTH (RSSI) FOR RADIO ZONES - P709E 1-64E
RECEIVED SIGNAL STRENGTH (RSSI) FOR RADIO ZONES - P710E 1-64E

The alarm panel has the ability to display the signal strength of the received signal from individual detectors.

Please note that this feature is only available if the receiver has the RSSI signal connected. As standard the RSSI signal is not normally available.

To eliminate confusion when multiple detectors are in operation, the panel will only display the RSSI level of a detector that is specified at this address. The detector MUST be enrolled into the panel for this to work. The RSSI option can be accessed from Client or Installer program modes. In Client mode, the user must have option 7 at addresses P221E-P240E assigned to their code for them to be allowed to start the RSSI mode.

To display the RSSI level of detector number 10 press P710E10E.
Now trigger the detector and return back to the keypad. The level of the last transmission from detector number 10 will be displayed at the keypad with a reading of 1-100%. Received signals from other detectors will be ignored by the panel during the RSSI reading.
The ITA mode at address P709E is the same as P710E with the exception that the lower limit has been raised to approximately 30%. This means that any signals that do not exceed the 30% minimum threshold will not display any value in the ITA RSSI mode.

RECEIVED SIGNAL STRENGTH (RSSI) FOR RADIO KEYS - P720E 21-100E

The alarm panel has the ability to display the signal strength of the received signal from individual radio keys.

Please note that this feature is only available if the receiver has the RSSI signal connected. As standard the RSSI signal is not normally available.

To eliminate confusion when multiple transmitters are in operation, the panel will only display the RSSI level of a Radio key that is specified at this address. The radio key MUST be enrolled into the panel for this to work. The RSSI option can be accessed from Client or Installer program modes. In Client mode, the user must have option 7 at addresses P221E-P240E assigned to their code for them to be allowed to start the RSSI mode.

To display the RSSI level of radio key number 50 press P720E50E.
Now operate the radio key at a distance from the panel then return back to the keypad. The level of the last transmission from radio key number 50 will be displayed at the keypad with a reading of 1-100%. Received signals from other radio keys will be ignored by the panel during the RSSI reading.

FIND STORED RADIO CODE PROGRAM LOCATION - P740E

If you wish to confirm where a radio device is stored in memory (eg find what zone number is associated with a radio device) you can enter in P740E which will put the panel in the “find Radio” mode. The keypad buzzer will beep to indicate that find mode had been started.
Next, trigger the device you wish to find in memory. When the code has been received and found in memory the keypad will stop beeping and display the zone or pendant number (eg Z15 = Zone 15, P35 = pendant 35).
If the device being operated is fitted with a tamper switch, you must send the tamper open signal when in find mode otherwise the panel will ignore the signal.

OUTPUT PROGRAM OPTIONS

PRIMARY OUTPUT OPTIONS - P681E-P688E

This block of addresses allow output modifiers to be programmed to each of the 8 outputs. In this block of addresses P681E relates to output #1, P682E relates to output #2 etc

P681E 1 = Invert output
2 = Flash output
3 = Single pulse to output
4 = Lockout output
5 = DTMF Remote Command Control
6 = Local Command Control
7 = Chime Alarm linked to pulse timer
8 = Pulse on a 24 hour alarm

Option 1 **Invert Output** - This option is used to invert the normal state of the output. All 8 outputs are electronic switches that are open circuit and switch to 0V when activated. If the output is inverted, the normal state of the output is switched to 0V and it goes open circuit when activated (inverted operation). If output 8 is inverted, the relay connected to output 8 will energise inverting the contacts (eg the NO contact will be NC and vice versa).

Option 2 **Flash Output** - This option causes the output to switch on and off at a rate set by the pulse timer (P921E) for the output when in alarm and is normally used to flash a lamp during an activation. **NOTE**: If the output is set to flash it will not turn on any output devices on the keypad buss (eg OUTPUTX4). This is because any fast flashing signals on the keypad buss will cause excessive buss traffic.

Option 3 **Single Pulse to Output** - This option, when applied, produces a single pulse set by the pulse timer (P921E) at the output during an alarm. This option overrides the normal alarm reset time (P901E).

Option 4 **Lockout Once Reset** - This option is used to limit the output to one operation per arming period. Once the alarm reset time has expired the output will not operate again until the alarm is reset.

Option 5 **DTMF Remote Command Control** - This option is used to map an output to the remote command control function whereby the output can be controlled via the telephone.

Option 6 **Local Command Control** - This option is used to map an output to the local command control feature whereby the output can be controlled directly from the keypad. To directly control outputs with this option turned on, the user must press the “Control” button on the keypad for 2 seconds. The display will read “ OUTPUTS”. Any outputs that are currently on will have their number shown on the LCD display. To turn outputs On or Off simply press the number that corresponds to the output you wish to control. The output number on the display will follow the output state e.g. if the output is on, the corresponding number will be on, if the output is off, no number will be displayed.

Option 7 **Chime Alarm Linked to Pulse Timer** - Chime Alarms programmed to operate this output will pulse the output at the rate programmed for the pulse timer (e.g. if it is output #1 then the timer at P921E applies). The Chime reset time (P995E) will still apply, eg the output will pulse for the duration of the chime reset time.

Option 8 **Pulse on a 24 hour alarm** - If a 24 hour zone activates the alarm this option will cause the output to pulse at a rate equal to the value set for the pulse timer (P921E) for this output. This feature is provided to differentiate between a burglar and fire alarm using the same siren.

P682E - P688E As per P681E above but apply to Outputs 2-8

ALARMS TO OUTPUT OPTIONS - P691E - P698E

In this block of addresses P691E relates to output #1, P692E relates to output #2 etc.

P691E 1 = Keypad Panic Alarm to Output
2 = Keypad Fire Alarm to Output
3 = Keypad Medical Alarm to Output
4 = Duress Alarm to Output

5 = Wrong Code Tamper Alarm to Output
6 = Radio Key Panic Alarm to Output
7 = 24 Hour Alarm to Output
8 = 24 Hour Fire Alarm to Output

Option 1 **Keypad Panic to Output** - This option is used to map the operation of the keypad panic to an output. A keypad panic alarm is created by pressing the "PANIC", "Chime" & "Control" or "1" & "3" buttons (the correct option depends on the model of keypad used). See P788E-P790E for Panic Alarm options.

Option 2 **Keypad Fire Alarm to Output** - This option is used to map the operation of the keypad Fire Alarm to an output. A keypad fire alarm is created by pressing the "A" & "B" or "4" & "6" buttons (the correct option depends on the model of keypad used). See P791E for the Fire Alarm option.

Option 3 **Keypad Medical Alarm to Output** - This option is used to map the operation of the keypad Medical Alarm to an output. A keypad medical alarm is created by pressing the "B" & "Chime" or "7" & "9" buttons (the correct option depends on the model of keypad used). See P792E for the Medical Alarm option.

Option 4 **Duress Alarm to Output** - This option is used to map a Duress Alarm to an output. A Duress Alarm is generated when the alarm is unset by a valid user that adds the duress digit to the beginning of their code. To reset the duress alarm to the output the area must be armed then disarmed.

Option 5 **Wrong Code Tamper Alarm to Output** - This option is used to map the Wrong Code Tamper Alarm to an output. A Wrong Code Tamper Alarm is generated if an invalid code is entered more than 4 times at a keypad. When the alarm is cleared using a valid code the output will be reset.

Option 6 **Radio Key Panic Alarm to Output** - This option is used to map the Radio Key Panic Alarm to an output i.e. when the Radio Panic is generated any output with this option enabled will turn on.

Option 7 **24 Hour Alarm to Output** - This option is used to map 24 Hour Alarms to an output i.e. when a 24 Hour Alarm is generated any output with this option enabled will turn on.

Option 8 **24 Hour Fire Alarm to Output** - This option is used to map 24 Hour Fire Alarms to an output. When the 24 Hour Fire Alarm is generated this will cause the output to flash at a rate set by the pulse timer for this output to identify the difference between a fire alarm and normal burglar alarm.

SECONDARY ALARMS TO OUTPUT OPTIONS - P701E - P708E

In this block of addresses P701E relates to output #1, P702E relates to output #2 etc

P701E
1 = Zone Tamper Alarm to Output
2 = System Tamper Alarm to Output
3 = Mains Failure to Output
4 = Panel Battery Low to Output
5 = Telephone Line Failure to Output
6 = Dialler Kiss-off Failure to Output
7 = Automatic Pulse to Output
8 = 24 Hour Smoke Reset to Output

Option 1 **Zone Tampers to Output** - When a zone tamper alarm occurs this address is used to map the Zone Tampers to an output.

Option 2 **System Tamper Alarm to Output** - This option is used to map a panel Tamper alarm to an output. The tamper input is used to monitor the panel cabinet and satellite tamper switches.

Option 3 **Mains Failure To Output** - A mains failure will be indicated at the output when this option is enabled. The Alarm Reset Timer (P901E) for this output should be set to "0".

Option 4 **Panel Battery Low to Output** - A battery Low condition will be indicated at the output when this option is enabled. The Alarm Reset Timer (P901E) for this output should be set to "0".

Option 5 **Telephone Line Failure to Output** - A telephone line failure will be indicated at the output when this option is enabled. The Alarm Reset Timer (P901E) for this output should be set to "0".

Option 6 **Dialler Kiss-off Failure to Output** - If the dialler reaches its maximum dialling attempts and is not

kissed off, this failure will be indicated at the output. When the Memory is viewed at a keypad the output will reset back to normal. The Alarm Reset Timer (P901E) for this output should be set to "0".

Option 7 **Automatic Pulse to Output** - This option will cause the output to pulse (at a rate set by the pulse timer for the output) every 5 seconds. It is primarily designed to flash an external light to show that the alarm is still active (reassurance indication).

Option 8 **24 Hour Smoke Reset to Output** - This option will cause the output to pulse for 2 seconds on arming of any Area following a 24 Hour alarm. It is designed to allow automatic reset of hardwired latching smoke detectors following an alarm. The output should be inverted so that it provides the 0V to power the smoke detectors.

OUTPUT AUTO ON/OFF TIME ZONES - P721E - 728E

These addresses are used to map automatic ON and OFF periods to each of the outputs if required. When a time-zone starts it will cause the output to turn on and when the time-zone ends it will cause the output to turn off. The time-zones are programmed at addresses P1061E - P1084E. Multiple Time Zones may be assigned to each output.

P721E T/Z 1-8 Automatic On/Off Timezone/s for output #1
P722E T/Z 1-8 Automatic On/Off Timezone/s for output #2
P723E T/Z 1-8 Automatic On/Off Timezone/s for output #3

P724E - P728E As per the above but for outputs 4-8

NOTE: A value of zero (0) at these addresses will disable any auto turn on turn off features at that output.

OUTPUT ENABLE TIME ZONES - P731E - P738E

These addresses are used to map enable time-zones to each of the outputs as required. The assigned time-zone/s will enable the output so that it can be used during the time-zone. If an output has a time-zone assigned and that time-zone is currently inactive, the output cannot be turned on by any programmed function (the output is inhibited). The time-zones are programmed at addresses P1061E - P1084E. This feature can be used to allow the audible alarms to only occur at pre-determined times and days.

P731E T/Z 1-8 Enable On/Off Timezone/s for output #1
P732E T/Z 1-8 Enable On/Off Timezone/s for output #2
P733E T/Z 1-8 Enable On/Off Timezone/s for output #3

P734E - P738E As per above but for outputs 4-8

NOTE: A value of zero (0) at these addresses will enable the output at all times.

MISCELLANEOUS PANEL OPTIONS

MISCELLANEOUS PANEL OPTIONS 1 - P741E

P741E 1 = Ignore Mains input
2 = Ignore zone tampers during exit delay
3 = Installer has direct access to program mode
4 = Installer lockout
5 = Panel tamper is EOL (end-of-line)
6 = Ignore Expander Tamper Alarm
7 = Ignore Expander AC Fail
8 = Ignore Expander Comms Fail

Option 1 **Ignore Mains Input -** If the panel must be run off a DC supply, such as a solar application, the 12V can be applied to the battery input and the mains input is ignored provided this option is turned on.

Option 2 **Ignore Zone tampers during exit delay** - If this option is on, any zone tampers created during the exit delay will be ignored. When the delay expires the zone tampers will be active again.

Option 3 **Installer has direct access to program mode** - If this option is on, the installer code has direct access to Installer Program Mode provided no areas are armed or in stay mode.

Option 4 **Installer lockout** - If this option is on, the installer "Back Door" power up access to program mode will be disabled (see page 17 for details). When this option is on the installer code is the only method of accessing installer program mode.

Option 5 **Panel tamper is EOL (end-of-line)** - This option determines if the panel Tamper input uses a closed loop or 2k2 end-of-line resistor. If this option is on the tamper requires a 2k2 resistor.

Option 6 **Ignore Expander Tamper Alarm -** The Expander boards have a dedicated tamper input. If this option is turned on, any tamper alarms from the expanders will be ignored.

Option 7 **Ignore Expander AC Fail** - The Expander boards monitor the AC voltage to ensure that they have charging voltage present to charge the battery. If this option is turned on, the main panel will ignore any AC fail signals from the expanders.

Option 8 **Ignore Expander Comms Fail** - The Expander boards are polled to ensure they are always on-line. If this option is turned on, the main panel will not give an alarm if there is no signal from an expander.

MISCELLANEOUS PANEL OPTIONS 2 - P742E

P742E 1 = Sensorwatch timer is in Minutes
2 = KP Alarm Buzzer linked to OP1 Reset Time
3 = Memory Access Requires Code
4 = Send Output data to keypad buss
5 = Output 1 is a siren Output
6 = Inhibit Arming if "Radio Activity Failure" alarm is active
7 = Test for RF Interference
8 = Installer Must Reset a System Tamper Alarm

Option 1 **Sensorwatch timer is in Minutes -** The Sensorwatch Timer (P930E) is normally in hours. It is designed to monitor zones over a period of days to ensure that they are still functioning. If no signal is received from a detector the sensorwatch timer will expire and create an alarm. Sometimes it is useful to have this zone monitoring facility give an alarm after a shorter period (eg monitoring a dementia transmitter for regular transmissions). If this option is turned on the Sensorwatch timer is in minutes not hours.

Option 2 **KP Alarm Buzzer linked to OP1 Reset Time -** If this option is turned on the Keypad alarm tone programmed at location P793E is linked to Output 1 Reset time (P901E), eg when Output 1 resets after an alarm the keypad buzzer will go silent also. If the option is turned off the buzzer will operate at all times.

Option 3 **Memory Access Requires Code -** If this option is turned off the Memory events can be accessed

directly by pressing the memory button. If it is turned on the Memory events can only be accessed after pressing <MEMORY> then a valid code then <ENTER>.

Option 4 **Send Output data to keypad buss** - This option allows the output updates to the keypad buss for the OUTPUTX4 board to be turned on if needed. If the option is On the Output data will be sent to the keypad buss. It is normally turned off unless needed.

Option 5 **Output 1 is a siren Output** - Output 1 is normally an open drain high current FET output that switches to 0V when activated. If this option is turned on Output 1 becomes a siren output designed to drive an 8 ohm horn speaker.

Option 6 **Inhibit Arming if "Radio Activity Failure" alarm is active** - If this option is off, the panel can be armed even if no signals have been received from any programmed radio detectors within the preset period programmed at address P929E. If this option is turned on, and no signals have been received from any radio detectors for the programmed time set at P929E, the panel cannot be armed until a new transmission is received. This option should only be used when supervised detectors are being used.

Option 7 **Test for RF Interference** - If this option is turned on the panel can automatically test the RSSI output of the receiver to see if there is an excessive amount of RF activity. If there is more than 30 seconds of received data within any 60 second period, the panel will display an "RF Fault" message and beep the keypad buzzer if programmed to do so at address P804E. This feature should only be turned on if the receiver fitted has the RSSI output.

Option 8 **Installer Must Reset a System Tamper Alarm** - If this option is off, the panel can still be used normally if a system tamper alarm occurs. If the option is turned on, and a system tamper alarm occurs, the user can reset the alarm but cannot Arm the system until the alarm is reset by an Installer. For the installer to reset the "arm inhibit" function, they must enter Installer program mode via client program mode so the installer direct access to program mode feature should be turned off (P741E Option 3) and the code used to access client mode must have option 7 on at addresses P221E-P240E.

MISCELLANEOUS PANEL OPTIONS 3 - P743E

P743E **1 = Enable Callback Mode**
2-8 = Spare

Option 1 **Enable Callback Mode -** For Security reasons the PC-Panel connection (upload/download) may require the use of the Callback feature. This feature stops the panel from allowing an upload or download from a PC unless the panel called the PC on the Callback number. If this option is turned on, Callback is the only method of connecting with a PC. For the function to work there must be a Callback number programmed at one of the telephone number locations and that number must have the Callback option set (P837E-P842E).

EXPANDER FAIL TIMEOUT - P745E

Each expander connected to the panel sends a regular activity signal to show that it is still on-line. The signal is sent approximately every 3 seconds. Every time an expander sends an on-line signal the timer at this address is reset. If the timer expires due to a lack of on-line signals from an expander, a trouble alarm will be generated. This timer is programmed in seconds and has a range of 16-999 seconds.

EXPANDERS CONNECTED TO THE PANEL - P749E

When you enter in address P749E the panel will tell you which expanders are connected. If number 1 is on it shows that expander I is connected and working, if number 2 is on it shows that expander 2 is connected and working. If an expander fails to communicate with the main panel or is temporarily removed for any reason the associated number will be turned off at this location to indicate that it is currently not on-line. When an expander fails, the main panel will generate and expander fail alarm and the trouble LED will turn on at the keypad. When the expander is back on-line again the trouble LED will turn off and an expander restore will be generated. As soon as the expander board is back on-line, the expander number will appear at this location again and main panel will start the expander fail timer (P745E) for that expander board again. At power-up, if any hardwired zones are assigned to an expander board the main panel will expect to get an on-line message from that expander. If it doesn't get the on-line message an expander fail will be generated. The fail alarm will be reset as soon as the expander is on-line.

P749E **1 = Expander 1 Active**
2 = Expander 2 Active

PROGRAMMING KEYPAD OPTIONS

KEYPAD OPTIONS - P780E - P813E

The block of addresses from P780E to P811E are used to assign the basic options of each keypad in the system. Each of the addresses from P780E to P811E may have 8 options assigned where the 8 options represent the keypad address number, i.e. if options 1, 2 & 4 are enabled at address P780E then keypads 1, 2 and 4 would be assigned to area "A". By default, all keypads are set to keypad address #1. Addresses P812E & P813E are special functions that only apply to the LCD keypads that have the dedicated “A” & “B” buttons.

NOTE: A keypad can only be used to control the area to which it has been assigned.

P780E 1-8 **Keypads assigned to Area A**
If the option is On, the keypad is assigned to Area A.

P781E 1-8 **Keypads assigned to Area B**
If the option is On, the keypad is assigned to Area B.

P782E 1-8 **Keypads assigned to Area C**
If the option is On, the keypad is assigned to Area C.

P783E 1-8 **Keypads assigned to Area D**
If the option is On, the keypad is assigned to Area D.

P784E 1-8 **Keypads with permission to fully Arm**
If the option is On, the keypad is allowed to Arm the assigned Area/s.

P785E 1-8 **Keypads with permission to arm Stay Mode**
If the option is On, the keypad is allowed to Arm Stay Mode for the assigned Area/s.

P786E 1-8 **Keypads with permission to use the Control Button**
If the option is On, the keypad can operate the “Control” button.

P787E 1-8 **Keypads with permission to Bypass**
If the option is On, the “Bypass” button on the keypad is enabled.

P788E 1-8 **Keypads with Panic button enabled**
If the option is On, and an LCD keypad with the single “PANIC” button is connected to the panel, the “Panic” button is enabled.

P789E 1-8 **Keypads with delayed Panic button enabled**
If the option is On, and an LCD keypad with the single “PANIC” button is connected to the panel, the “Delayed Panic” feature is enabled. The button must be pressed for two seconds (delayed) to create a panic alarm. The option at address P788E MUST be off for the delayed option to work.

P790E 1-8 **Keypads with Dual Button Panic Alarm enabled**
If the option is On, pressing the “Control” & “Chime” (Crow LCD) or “1” & “3” (AAP LCD) buttons simultaneously will create a Panic alarm at the keypad.

P791E 1-8 **Keypads with Dual Button Fire Alarm enabled**
If the option is On, pressing the “A” & “B” (Crow LCD) or “4” & “6” (AAP LCD) buttons simultaneously will create a Fire alarm at the keypad.

P792E 1-8 **Keypads with Dual Button Medical Alarm enabled**
If the option is On, pressing the “B” & “Chime” (Crow LCD) or “7” & “9” (AAP LCD) buttons simultaneously will create a Medical alarm at the keypad

P793E 1-8 **Keypads with buzzer mapped to armed alarms**
If the option is On, a Zone alarm during the Armed state will cause the Keypad buzzer to sound (audible alarm) at the keypad. If option 2 is turned on at location P742E the buzzer will be reset when output 1 reset time (P901E) expires. Otherwise it will sound until the alarm is reset.

P794E 1-8 **Keypads with buzzer mapped to stay mode alarms**
If the option is On, a Stay Mode Zone alarm during the Armed state will cause the Keypad buzzer to sound (audible alarm) at the keypad.

P795E 1-8 **Keypads with buzzer mapped to 24 hour alarms**
If the option is On, a 24 Hour Zone alarm will cause the Keypad buzzer to sound (audible alarm) at the keypad.

P796E 1-8 **Keypads with buzzer mapped to chime mode alarms**
If the option is On, a chime Zone alarm will cause the Keypad buzzer to sound (audible alarm) at the keypad.

P797E 1-8 **Keypads with buzzer mapped to armed mode exit delay beeps**
If the option is On, the keypad will sound the exit beeps when the system is armed to indicate

the exit delay has started.

P798E 1-8 Keypads with buzzer mapped to stay mode exit delay beeps
If the option is On, the keypad will sound the exit beeps when stay mode is armed to indicate the exit delay has started.

P799E 1-8 Keypads with buzzer mapped to entry delay beeps
If the option is On, the keypad will sound the entry beeps to indicate an entry delay has started.

P800E 1-8 Keypad buzzer to warn of sensorwatch or supervised radio timeout alarm
If the option is On, a Supervised Radio signal failure or a Sensorwatch alarm on a zone will cause the buzzer at the keypad to sound. Pressing any button will silence the beep.

P801E 1-8 Keypads with buzzer mapped to keypad tampers
If the option is On, a keypad tamper alarm (four incorrect attempts to enter in a code) will cause the buzzer at the keypad to sound.

P802E 1-8 Keypads with buzzer mapped to zone tampers
If the option is On, a zone tamper alarm will cause the buzzer at the keypad to sound.

P803E 1-8 Keypads with buzzer mapped to system tampers
If the option is On, a system tamper or an LCD keypad tamper switch alarm will cause the buzzer at the keypad to sound.

P804E 1-8 Keypads with buzzer mapped to indicate RF signal blocked
If the option is On, any constant RF data that adds up to more than 30 seconds within a 60 second period (RF Blocked) will cause the keypad buzzer to sound (requires RSSI to be available on the receiver).

P805E 1-8 Keypads with buzzer mapped to Pendant "Panic" Alarm
If the option is On, a radio Pendant Panic alarm will cause the buzzer at the keypad to sound.

P806E 1-8 Keypads with buzzer mapped to keypad "Panic" Alarm
If the option is On, a Keypad Panic alarm will cause the buzzer at the keypad to sound.

P807E 1-8 Keypads with buzzer mapped to keypad "Fire" Alarm
If the option is On, a Keypad Fire alarm will cause the buzzer at the keypad to sound.

P808E 1-8 Keypads with buzzer mapped to keypad "Medical" Alarm
If the option is On, a Keypad Medical alarm will cause the buzzer at the keypad to sound.

P809E 1-8 Keypads with buzzer mapped to phone line failure
If the option is On, a Telephone Line Failure will cause the buzzer at the keypad to sound. Pressing any button will silence the beep.

P810E 1-8 Keypads with facility to turn the LED's off after Exit Delay
If the option is On, the LCD display & keypad backlighting on the selected keypad/s will turn off when all areas assigned to the keypad are Armed or in Stay mode. The backlighting will automatically turn on again if there is an alarm, an entry delay is started, any button is pressed at the keypad or when the system is Disarmed.

P811E 1-8 Keypads that will turn off all LED's and backlighting during power failure
If the option is On, the LCD display & keypad backlighting on the selected keypad/s will turn off when the Mains (AC) supply is off. The backlighting will automatically turn on again when the power returns. During a power failure, if the LED's and Backlighting are off, pressing the "Enter" button will turn them on for 20 seconds.

P812E 1-8 Keypad "A" button special arming options
The "A" button on the keypads with this special button can be assigned a single button arm function for any or all of the four areas. To arm the alarm, the "A" button must be held down for 2 seconds. As well as assigning an Area or areas to the button, it can also allow arming of Latchkey Mode. If the area is armed in Latchkey mode using this button and the panel is disarmed by a non-latchkey user (see P221E-P240E option 8) the panel will report the disarm to a selected telephone number/s.

P813E 1-8 Keypad "B" button special arming options
The "B" button on the keypads with this special button can be assigned a single button arm function for any or all of the four areas. To arm the alarm, the "B" button must be held down for 2 seconds. As well as assigning an Area or areas to the button, it can also allow arming of Latchkey Mode. If the area is armed in Latchkey mode using this button and the panel is disarmed by a non-latchkey user (see P221E-P240E option 8) the panel will report the disarm to a selected telephone number/s.

P812 & P813 SPECIAL ARMING OPTIONS

1 = Arms Area **A**
2 = Arms Area **B**
3 = Arms Area **C**
4 = Arms Area **D**
5 = Arms "Latchkey" Mode
6 = Spare
7 = Spare
8 = Spare

PROGRAMMING DELAYS & TIMERS

OUTPUT RESET TIMES - P901E to P908E

This option sets the duration the output will turn on for until it automatically resets again. A zero means the output stays on until the trigger is reset at the keypad (latching).

P901E 0-999 **Output #1 reset time** - Default 600 seconds (10 min)
P902E 0-999 **Output #2 reset time** - Default 600 seconds (10 min)
P903E 0-999 **Output #3 reset time** - Default 600 seconds (10 min)
P904E 0-999 **Output #4 reset time** - Default 600 seconds (10 min)
P905E 0-999 **Output #5 reset time** - Default 0 (latching)
P906E 0-999 **Output #6 reset time** - Default 0 (latching)
P907E 0-999 **Output #7 reset time** - Default 0 (latching)
P908E 0-999 **Output #8 reset time** - Default 0 (latching)

MAINS FAIL REPORTING DELAY TIME - P909E

The Mains voltage (AC input) must fail for longer than this time before it will report the failure via the dialler.

P909E 0-999 **Mains Fail Dialler Report Delay** - Default 600 seconds

ZONE ALARM REPORT DELAY TIME - P910E

When the panel is armed and a zone alarm occurs, if there is a value programmed at this address the reporting of the alarm signal via the dialler will be delayed for this period of time. If the alarm is disarmed before this time expires, no alarm will be sent. A value of zero means there will be not delay.

P910E 0-999 **Zone Alarm Report Delay to Dialler** - Default 0 seconds

OUTPUT ON DELAY TIMES - P911E to P918E

When the output is turned on following an alarm, if a value is programmed at this address, the turning on of the output will be delayed by this time. A value of zero means there will be no delay.

P911E 0-999 **Output #1 On delay timer** - Default 0 (instant)
P912E 0-999 **Output #2 On delay timer** - Default 0 (instant)
P913E 0-999 **Output #3 On delay timer** - Default 0 (instant)
P914E 0-999 **Output #4 On delay timer** - Default 0 (instant)
P915E 0-999 **Output #5 On delay timer** - Default 0 (instant)
P916E 0-999 **Output #6 On delay timer** - Default 0 (instant)
P917E 0-999 **Output #7 On delay timer** - Default 0 (instant)
P918E 0-999 **Output #8 On delay timer** - Default 0 (instant)

SUPERVISED RADIO SIGNAL TIMEOUT # 1 - P919E

The panel can monitor wireless detectors that send periodic supervised signals (eg type 5 at addresses P491E-P510E). Every time a supervised signal is received from a detector the supervisory timer for that detector will be reset. If the timer expires due to no transmissions from a detector, the panel will generate a supervised failure for that detector.

P919E 0-255 **Supervised Radio Timer # 1** (0-255 minutes) - Default 240 minutes

SUPERVISED RADIO SIGNAL TIMEOUT # 2 - P920E

The panel can monitor wireless detectors that send periodic supervised signals (eg type 5 at addresses P491E-P510E). Every time a supervised signal is received from a detector the supervisory timer for that detector will be reset. If the timer expires due to no transmissions from a detector, the panel will generate a supervised failure for that detector. This timer allows for devices with longer periods between supervised transmissions to be used on the same system. To use this second timer the zone group must have option 8 turned on at addresses P451E-P470E.

P920E 0-255 **Supervised Radio Timer # 2** (0-255 minutes) - Default 240 minutes

OUTPUT PULSE TIMES - P921E to P928E

The pulse timer can be used to flash an output, control the duration of the radio arm/disarm chirps, etc. The programmed value is in 1/10th of a second intervals, eg a programmed value of 2 = 2/10th sec (0.2sec), a value of 10 = 1 sec, etc. The minimum duration is 0.2 seconds.

P921E 0-999 **Output #1 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P922E 0-999 **Output #2 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P923E 0-999 **Output #3 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P924E 0-999 **Output #4 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P925E 0-999 **Output #5 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P926E 0-999 **Output #6 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P927E 0-999 **Output #7 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)
P928E 0-999 **Output #8 pulse time** -Default 0 (0 = Minimum 0.2 sec pulse)

RADIO SIGNAL FAILURE TIMER - P929E

If this timer is set to "0", no radio activity monitoring will occur. If it is set to any value other than "0", the panel will be checking to see that at least one of the programmed devices has been received within the timed period. Every time a programmed radio detector is received, this timer is reset. If no signals have been received before this timer expires, an alarm will be generated. The arming of the panel can also be inhibited if desired by turning on option 6 at address P742E. This timer would normally only be used when supervised detectors are connected to the system.

P929E 0-255 **Radio Signal Failure Timer** (0-255 minutes) - Default 0

SENSORWATCH ALARM TIMER - P930E

If a zone group has the "Sensorwatch" option turned on (option 2 at addresses P451E-P470E), this timer sets the monitoring period before a Sensorwatch alarm will occur. Every time a zone triggers at the panel, the Sensorwatch timer for the zone is reset back to zero. If the time period expires, a Sensorwatch (zone inactivity) alarm will be generated. The timer is stopped and the value saved when the area assigned to the zone group is armed. When the area is disarmed the timer continues from the saved value. The default timer units is in hours but it can be programmed to be in minutes at address P742E option 1.

P930E 0-255 **Sensorwatch Timer** (0-255 hours) - Default 120 hours

AREA EXIT DELAY TIMES - P981E to P984E

This is the exit delay time applicable to all zones in an area following arming. The alarm is only set when the exit delay expires. Any zone can be unsealed during the exit delay but must be sealed when the delay expires.

P981E 0-999 **Area "A" exit delay** - 0-999 seconds - Default 60 seconds
P982E 0-999 **Area "B" exit delay** - 0-999 seconds - Default 60 seconds
P983E 0-999 **Area "C" exit delay** - 0-999 seconds - Default 60 seconds
P984E 0-999 **Area "D" exit delay** - 0-999 seconds - Default 60 seconds

SPECIAL STAY MODE ENTRY DELAY TIMES - P985E to P988E

If option 7 is turned on at addresses P672E, P772E, P872E & P972E, this entry delay time will apply to all Stay Mode zones in that area. If option 7 is turned off, the entry delays programmed at P531E-P550E will apply.

P985E 0-999 **Area "A" Special Stay Mode entry delay** - Default 20 seconds
P986E 0-999 **Area "B" Special Stay Mode entry delay** - Default 20 seconds
P987E 0-999 **Area "C" Special Stay Mode entry delay** - Default 20 seconds
P988E 0-999 **Area "D" Special Stay Mode entry delay** - Default 20 seconds

TWO TRIGGER TIMER - P989E

If a zone group is set to two trigger (option 6 on at addresses P431E-P450E), zones in that group must activate twice within the two trigger period to cause an alarm. A single zone can trigger twice or two separate zones trigger once each within this time to create an alarm. If only one trigger is received before the two trigger timer expires, the timer is reset and the process must be repeated. Also, if a single two trigger zone is left continuously un-sealed longer than the two trigger time an alarm will be generated, eg a door with a reed switch that may have been forced and left open..

P989E 0-999 Two Trigger time period - Default 60 seconds

CHIME ALARM TO KEYPAD BUZZER TIMES - P991E to P994E

If a Chime alarm is generated, this time will set how long the keypad buzzer will sound before resetting. Chime zones are configured at option 8 (P411E-P430E) or option 4 (P431E-P450E). The time value is in 1/10th seconds.

P991E 1-999 Area "A" Chime Zone Alarm to keypad buzzer duration - Default 20 (2 seconds)
P992E 1-999 Area "B" Chime Zone Alarm to keypad buzzer duration - Default 20 (2 seconds)
P993E 1-999 Area "C" Chime Zone Alarm to keypad buzzer duration - Default 20 (2 seconds)
P994E 1-999 Area "D" Chime Zone Alarm to keypad buzzer duration - Default 20 (2 seconds)

CHIME ALARM TO OUTPUT TIMES - P995E to P998E

If a Chime alarm is generated, this time will set how long an output will turn on before resetting. The time value is in 1/10th seconds.

P995E 1-999 Area "A" Chime Zone Alarm to Output duration - Default 20 (2 seconds)
P996E 1-999 Area "B" Chime Zone Alarm to Output duration - Default 20 (2 seconds)
P997E 1-999 Area "C" Chime Zone Alarm to Output duration - Default 20 (2 seconds)
P998E 1-999 Area "D" Chime Zone Alarm to Output duration - Default 20 (2 seconds)

PROGRAMMING REAL TIME CLOCK AND TIME ZONES

SETTING THE REAL TIME CLOCK - P818E - P822E

These addresses are used to set the internal clock used by the time zone functions, time & date stamping of events in the event buffer and the time for any automatic test calls to a monitoring station.

P818E 1-7 **Set day of the week** - where values of 1-7 represent Sunday to Saturday (Sunday = 1)
P819E 0000 - 2359 **Set time** - Use 24 hour format
P820E 1-31 **Set day of the month** - where values of 1-31 represent days in the month.
P821E 1-12 **Set Month -** where values of 1-12 represent the month.
P822E 0-99 **Set Year** - Where 0-99 represent years, i.e. 5 = 2005.

PROGRAMMING DAYLIGHT SAVING ADJUSTMENTS - P823E - P829E

As the panel has a real time clock, provision has been made for automatic adjustments for daylight saving. These addresses provide the panel with the information required to perform the daylight saving adjustments.

P823E 0-5 **Daylight Saving Start Sunday** - This is the Sunday number in the month that daylight saving will begin (values of 1-5 are allowed). Default = 1

P824E 0-12 **Daylight Saving Start Month** - This is month in which the above Sunday will occur. (Values of 1-12 are allowed). Default = 10

P825E 0-24 **Daylight Saving Start Hour** - This is the hour that daylight savings will begin (values of 0-24 are allowed). Default = 2

P826E 0-5 **Daylight Saving End Sunday** - This is the Sunday number in the month that daylight savings will end (values of 1-5 are allowed). Default = 3

P827E 0-12 **Daylight Saving End Month** - This is the month in which the Sunday number will occur (values of 1-12 are allowed). Default = 3

P828E 0-24 **Daylight Saving End Hour** - This is the hour that daylight savings will end (values of 0-24 are allowed. Default = 3

P829E 8 **Daylight Saving Active** - If you enter this address and 8 is on, this means that the panel is currently observing daylight saving time. If 8 is turned off, daylight saving is not active. When setting up a panel for the first time (or after re-powering the panel), if daylight saving should be active you must turn on 8 at this location to tell the panel that daylight saving time is active.

TIME ZONE PROGRAMMING - P1061E - P1084E

These addresses define the time zones used by outputs, users and the Auto Arm/Disarm feature. Time zones require a start and a finish time plus the applicable days to be programmed. The finish time must always be later than the start time. All times are set in 24 hour clock format.

P1061E 1-8 **TZ1 days of the week** - The values of 1-7 represent the days of the week which the time zone will operate where 1 = Sunday, 2 = Monday etc. A value of 8 at this address will invert the TZ function so that instead of being effective during the window created by the start and finish times, the TZ is effective during the times outside the window set by the start and finish times (inverted).

P1062E 0000 - 2359 **TZ1 Start time** - This is the time when the TZ will start. Use 24 hour format (HHMM).

P1063E 0000 - 2359 **TZ1 Finish time** - This is the time of day when the TZ will finish. The finish time must be greater than the start time. Use 24 hour format (HHMM).

There are 8 time zones available and they occupy addresses P1061E to P1084E. Each time zone must have the days, start, and stop time programmed for it to work properly.

P1061E TZ1 Day of the week
P1062E TZ1 Start Time
P1063E TZ1 Finish Time
P1064E TZ2 Day of the week
P1065E TZ2 Start Time
P1066E TZ2 Finish Time
P1067E TZ3 Day of the week
P1068E TZ3 Start Time
P1069E TZ3 Finish Time
P1070E TZ4 Day of the week
P1071E TZ4 Start Time
P1072E TZ4 Finish Time
P1073E TZ5 Day of the week
P1074E TZ5 Start Time
P1075E TZ5 Finish Time
P1076E TZ6 Day of the week
P1077E TZ6 Start Time
P1078E TZ6 Finish Time
P1079E TZ7 Day of the week
P1080E TZ7 Start Time
P1081E TZ7 Finish Time
P1082E TZ8 Day of the week
P1083E TZ8 Start Time
P1084E TZ8 Finish Time

P1093E **Active Time-Zones -** If Time Zones are being used, by entering in this address while in Installation Program Mode the panel will display any of the 8 time zones currently active. If 1-8 are On they indicate active time zones.

SETUP AND DIAGNOSTIC DATA

DYNAMIC DATA - P1090E-P1093E

These addresses are used to provide real time feedback from the panel as to the current status. They are intended as view only addresses and only available in installer program mode.

P1090E **Display keyboard address** - Entering this program location will cause the panel to display the keypad address (address 1-8).

P1091E **Display Areas assigned to this keypad** - Entering this program address will cause the keypad you are using to display it's currently assigned Areas.

P1092E **Display software version** - Entering this program address will cause the keypad you are using to display the panel software version number.

P1093E **Active Time-Zones -** If Time Zones are being used, by entering in this address while in Installation Program Mode the panel will display any of the 8 time zones currently active. If 1-8 are On they indicate active time zones.

START PRINTING THE EVENT BUFFER - P1094E

P1094E **Start Event Printing** - The alarm system stores the last 255 events in a non-volatile memory. Each event has a time and date when the event occurred plus a description of the event. These events can be printed to a serial printer if required. To print the events, a Serial Board must be plugged into the panel (with the link set to printer on the serial board) and connected to a printer with an RS232 input. A user with permission to print (e.g. P221E-P240E option 3 on) must enter client program mode (P-code-E), then enter P1094E. The entire contents of the event buffer will be sent to the printer.

ANSWER AN IN-COMING CALL - P1095E

P1095E **Answer an In-coming Call** - For security reasons the installer may have programmed the panel so that it can only answer an in-coming call if authorised by a user on-site. This would generally be used to allow a PC connection to the panel. A user with permission to answer an in-coming call (e.g. P221E-P240E option 4 on) must enter client program mode (P-code-E), then enter P1095E while the phone line is ringing. The panel will then answer the call and allow the PC connection to be made.

START WALK TEST MODE - P1096E

P1096E **Walk-test mode** - When in Installation or Client Program mode, entering P1096E will turn On walk-test mode. The keypad buzzer will beep at one second intervals to show that walk-test mode is active. When in walk test mode the activated zone numbers will latch on at the keypad display. The Installer or User can then walk past all of the detectors and return to the keypad to verify that they are functioning correctly at the panel. The walk-test results are also stored in memory so they can be viewed at a later time if required. Pressing any button will terminate walk-test mode and force the panel out of program mode.

TEMPORARY OUTPUT DISABLE - P1097E

P1097E **Temporary Output Disable** - This address allows a technician to select any output/s to be temporarily disabled for one alarm or armed cycle, e.g. by turning on 1-8 at P1097E then leaving program mode, the selected outputs will not turn on following an alarm. The technician is now free to arm the system to test all monitoring signals without having all of the internal & external alarms activating. When the alarm is reset or disarmed all outputs will now work normally again.

DATA TRANSFER USING EE² BOARD (DTU)

P1098E **Write to EE² Board** - With the optional back-up EE² board plugged into the serial connector on the panel and the write enable link fitted on the EE² board, entering P1098E will write a copy of the panel program files to the EE² board.

P1099E **Read from EE² Board** - This address allows a copy of a panel program to be downloaded into the panel (the program files must first have been copied to the EE² board - refer P1098E). Note: When transferring data from this board to a panel, the software versions of the two panels (the panel where the data files were created and the panel receiving the files) must be the same otherwise the panel may not work correctly.

CLEAR OUTPUT DEFAULTS - P1106E

P1106E **Clear Output Defaults** - This option is used to remove ALL default options assigned to any output. This is a particularly useful tool when reassigning outputs to special functions such as smoke detector reset, garage door control, etc, where you need to remove the standard defaults from an output. In addition to removing all default programming this option will also make the reset time for the selected output/s "0".

RESET TO DEFAULTS

RESET TO DEFAULTS - P1100E - P1105E

These addresses are used to reset sections of the programming back to defaults. Defaults are the factory settings. To reset the entire configuration, including the event memory buffer you can use P1105E, otherwise you can default selected sections of memory as described below. To perform the default functions you must enter in the address as below then repeat the address number eg P1105E 1105E. The second entry is designed to prevent accidental defaulting of the panel.

P1100E Reset User codes
P1101E Reset Dialler parameters
P1102E Reset Radio parameters
P1103E Reset Voice settings
P1104E Reset the balance of the panel settings not included above
P1105E Reset all panel parameters to default and clear the event memory buffer

CLEAR EVENT MEMORY - P1107E

The panel stores up to 255 events in its non-volatile memory. When the memory reaches the limit, the newest event will replace the oldest event. This address allows you to clear all currently stored events. To perform the memory reset function you must enter in the address as below then repeat the address number eg P1107E 1107E. The second entry is designed to prevent accidental deletion of the memory events.

START CALLBACK - P1108E

For Security reasons it is possible to restrict access to the control panel for re-programming via a PC by only allowing callback. For the callback option to work there must be a telephone number programmed with the callback format (P837E-P842E option 14) and callback must be enabled (P743E option 1 On). For a User to initiate a callback the user must have a user group assigned to it that has option 4 turned on at addresses P221E-P240E. If all of the above is set-up properly, the user can access Client program mode then enter P1108E at the keypad and the panel will then dial the pre-programmed Callback number.

P1108E Start Callback

RESET PANEL - P1109E

If one of the expanders is not intended to be connected to the control panel but a hardwired zone group is accidentally assigned to a zone on the non-connected expander, the panel will try to update the expander and an expander fail will occur. Once the incorrect programming has been corrected the panel either has to be powered down to reset the expander fail alarm or it can be reset by entering in P1109E from Installer program mode.

P1109E Reset Panel

DIALLER PROGRAMMING

ENABLING DIALLER & SETTING DIALLING PARAMETERS - P890E

P890E 1 = Enable dialler
2 = Fax defeat
3 = Disable line monitoring
4 = Pulse Dial
5 = Reverse Pulse Dial
6 = Report 24 Hr alarms in Domestic/Voice
7 = Auto-Detect Modem Format
8 = Force V21

Option 1 **Enable Dialler** - This option is used to enable the dialler. If this option is Off, all dialler reporting activity will be disabled.

Option 2 **Fax Defeat -** This option enables fax defeat mode. When this option is turned on the panel will count the incoming rings. If the number of rings is between 1-4 and then the ringing stops (call terminated), fax defeat mode will be initiated. If another call is established within 45 seconds of termination of the first call, the panel will answer on the first ring (fax defeat mode). If another call is not established within 45 seconds of the first call, the fax defeat mode is reset. For fax defeat to work the auto answer rings must be enabled by putting in a suitably high ring count (e.g. 25).

Option 3 **Disable Line Monitoring** -If this option is turned on, the panel no longer tests the telephone line.

Option 4 **Pulse Dial -** If this option is turned on the dialler will use Pulse dialling. If the option is turned off the dialler will use DTMF Dial. The default is set to DTMF dial.

Option 5 **Reverse Pulse Dial** - With this option off, the dialling pulses are normal i.e. a 1 = 1 pulse, a 9 = 9 pulses. If the option is on, then the pulses are reversed i.e. a 1 = 9 pulses, a 9 = 1 pulse. Note: this option requires option 4 to be turned off to allow pulse dialling.

Option 6 **Report 24 Hour alarms in Domestic/Voice Format -** Normally 24 Hour alarms will not report via the dialler in Domestic or Voice reporting formats. If 24 Hour alarm reporting is required for these formats then they can be enabled by turning this option on.

Option 7 **Auto-Detect Modem Format -** The panel can connect using Bell103 or V21 formats when performing upload/download connections. If this option is on, auto-detect is selected. In auto-detect mode the panel generates the V21 tones first and if no connection is established it then generates the Bell103 tones. If this option is turned off the format is fixed by the selection made at option 8.

Option 8 **Force V21 Modem Format -** If option 7 above is turned off then the modem format to be used for upload/download is specified here. If this option is off the format is Bell103, if turned on the format is V21.

REPORTING SCENARIOS - P892E - P895E

P892E 1-16E Reporting Scenario #1 options (Default=1, 7)
P893E 1-16E Reporting Scenario #2 options (Default = 0)
P894E 1-16E Reporting Scenario #3 options (Default = 0)
P895E 1-16E Reporting Scenario #4 options (Default = 0)

In order to provide the best flexibility when reporting alarms we have developed a unique system called "Reporting Scenarios". The Scenarios define what action is taken by the panel for each alarm event, e.g. alternate between numbers 1&2 until one is kissed-off or dual report to numbers 1&2 until both kissed-off. There are four individual scenarios available each with up to 16 possible steps. The Scenarios consist of a string of digits that define the reporting action to be taken by the panel. The digits in a Scenario are pre-defined. What the various digits are and their meaning are listed in the following chart.

Scenario Options;

1 = Call Telephone Number 1
2 = Call Telephone Number 2
3 = Call Telephone Number 3
4 = Call Telephone Number 4
5 = Call Telephone Number 5
6 = Call Telephone Number 6
7 = Return to step 1 until the event is kissed-off
9 = Stop if kissed-off, if not proceed to next step

Example 1 (alternate dialling) 1 9 2 9 7

In this example we have defined a scenario with five steps as follows.

Step 1 - Dial Ph # 1.
Step 2 - If not Kissed-off (defined by the 9) continue to next step
Step 3 - Dial Ph # 2
Step 4 - If not Kissed-off (defined by the 9) continue to next step
Step 5 - If not kissed-off return to Ph #1 (the 7 causes a return to the start)

This process is repeated until kissed-off or the maximum number of dialling attempts have been reached for this scenario.

Example 2 (dual reporting) 1 7 2 7

In this example we have defined a scenario with four steps as follows.

Step 1 - Dial Ph # 1.
Step 2 - If not Kissed-off return to Ph # 1 (the 7 causes a return to the start).

When kissed-off or the maximum re-tries reached, move forward to the next step.

Step 3 - Dial Ph # 2
Step 4 - If not kissed-off return to Ph # 2 (the 7 means return to the start of the entries after the last 7).

When kissed-off or the maximum re-tries reached, move forward to the next step. If no further steps, stop.

The first step (up to the !st 7) must be completed i.e. kissed-off or the maximum re-tries reached, before the panel can move past the first "7". Then it can step forward and execute additional instructions up to the next 7. When the format is Contact ID or 4+2 the use of the two sevens in the scenario forces the panel to report the same signal to both numbers (Dual reporting).

MAXIMUM DIAL ATTEMPTS PER SCENARIO NUMBER P896E - P899E

The maximum dialling attempts sets a limit to the number of calls made per alarm event. If the dialler is not kissed off and the dialling attempts limit is reached, the panel will stop dialling. The unreported alarm condition will remain in the dialler buffer and will get reported when a new event triggers the dialler again. If a scenario is used for the Callback feature the maximum dial attempts is ignored for that scenario and it will only dial once. If callback fails for any reason (eg telephone number engaged), Callback must be initiated again.

P896E Maximum dialling attempts for Scenario # 1-Value 1-99 (Default=20)
P897E Maximum dialling attempts for Scenario # 2-Value 1-99 (Default=20)
P898E Maximum dialling attempts for Scenario # 3-Value 1-99 (Default=20)
P899E Maximum dialling attempts for Scenario # 4-Value 1-99 (Default=20)

TELEPHONE NUMBER PREFIX P830E

This Prefix can be added to the beginning of any of the 6 telephone numbers by turning on option 6 at addresses P843E-P848E.

P830E Telephone Number Prefix - 16 Digits Maximum (Pauses and special characters allowed)

PROGRAM TELEPHONE NUMBERS - P831E - P836E

There are 16 digits available in each of the telephone numbers including five special characters. To program the special characters that include dialling pauses, the * and # characters, etc, refer to the table below.

Character	**LCD KP Button**	Displayed as On **LCD KP**
# Character	"Control" "2"	#
*** Character**	"Control" "3"	*
2.5 sec pause	"Control" "4"	-
Wait for 2nd Dial Tone	"Control" "5"	W
5 sec pause	"Control" "6"	=

P831E **Telephone Number 1** - 1-16 Digits plus special characters
P832E **Telephone Number 2** - 1-16 Digits plus special characters
P833E **Telephone Number 3** - 1-16 Digits plus special characters
P834E **Telephone Number 4** - 1-16 Digits plus special characters
P835E **Telephone Number 5** - 1-16 Digits plus special characters
P836E **Telephone Number 6** - 1-16 Digits plus special characters

DEFINE REPORTING FORMATS FOR EACH TELEPHONE NUMBER - P837E - P842E

These addresses define which format the panel will use when dialling each of the six phone numbers.

P837E **1 = Contact ID**
2 = Domestic Dial
4 = Speech Dialler
13 = 4+2 DTMF
14 = Callback Number

Option 1 **Contact ID** - Use Contact ID format to report alarm and system events to a monitoring company.

Option 2 **Domestic Dial** - Use "Domestic" format to report alarm events. This format uses alternating tones to report alarms and can be kissed-off by pressing any digit on a touch tone phone. This alternating alarm tone continues for 5 seconds followed by a 5 second pause, at which time the panel is looking for a kiss-off. If a kiss-off is not received another round of alarm tones will be sent followed by another pause to check for kiss-off. This routine is repeated 4 times, at which point if a kiss-off has not been received, the panel will hang up and dial the next phone number. Domestic dial will report Zone alarms, Manual Fire, Medical & Panic alarms, Radio Panic alarms, Mains failure, Battery low, Zone & Cabinet tampers, Radio Supervisory failure and Radio battery low signals. If any of the dialling scenarios (P931E-P950E) are programmed with a “0” the alarm event will not report.

Option 4 **Speech Dialler** - Report alarm events by using the customised Voice messages. This format is similar to the Domestic Dial format in that it reports alarm events via private phone numbers and is kissed-off by pressing a button on the telephone but this format will report the alarm events using pre-recorded voice messages. When the alarm occurs, like the Domestic Dial format, a 5 second pause follows the voice message at which time the panel is looking to be kissed-off. If not kissed-off the dialler will repeat the message and pause again. This routine is repeated 4 times and if a kiss-off has not been received the panel will hang up and dial the next phone number. To kiss-off the panel during the pause period all you do is press any button on your touch tone telephone. If a kiss-off is not received from any of the phone numbers dialled, the panel will make the maximum number of calls allowed for the scenario and shut down awaiting a new alarm trigger. The same alarms that are sent for Domestic Dial above are also sent in Speech mode.

Option 13 **4+2 DTMF** - This option sends a 4+2 DTMF (Dual Tone Multi-Frequency) signal to a monitoring station. The alarm transmission consists of a 4 digit account code, a 2 digit event code and a checksum.

Option 14 **Callback Number** - For security reasons, the installer may wish to program the panel to use a pre-programmed Callback number for a PC connection. Callback Mode means the PC can call the panel and request that the panel call it back on the programmed callback number. The panel will acknowledge the Callback request to the PC then hang-up and dial back on this number to make a PC-Panel connection. Alternatively, a user on-site can initiate a call to the Callback number using the P1108E command in program mode. See P743E below for further details on setting up Callback.

The panel will automatically cease reporting in Domestic, or Speech Modes if reset with a valid code. Contact ID and 4+2 modes Must be kissed off by a monitoring station receiver.

Note: P838E through P842E are as above but apply to telephone numbers 2-6

MISCELLANEOUS PANEL OPTIONS 3 - P743E

Option 1 **Enable Callback Only Mode -** If this option is turned on the only method of PC connection is by using Callback. If it is turned off the PC can use either the Callback method or directly dial the panel for a PC connection. This feature stops the panel from allowing an upload or download from a PC unless the panel called the PC on the Callback number. There must be a Callback number programmed at one of the telephone number locations (831E-P836E) and that number must have the Callback option “14” set (P837E-P842E). There should also be a scenario programmed with the Callback number (P892E-P895E). The maximum dialling attempts for the Callback scenario is automatically limited to 1 attempt. Then that scenario number should be assigned to Callback mode at address P950E.

DEFINE OPTIONS FOR EACH TELEPHONE NUMBER - P843E - P848E

These addresses are used to define various options for each of the six phone numbers.

P843E 1 = Monitor Call Progress
2 = Blind Dial
3 = Use Group Numbers for Contact ID
4 = Send Restores
5 = Send Automatic Test calls
6 = Add Prefix to this Telephone Number
7 = Dial using Long DTMF Tones
8 = Ignore Kiss off in Domestic mode

Option 1 **Monitor Call Progress -** Monitor call progress means that the dialler monitors the status of the dialling tone to determine whether the call is valid or not. If the call is not valid, i.e. engaged, the panel will know and hang up the call and try again.

Option 2 **Blind Dial** - When the dialler makes a call it looks for dial tone before making the call. If no dial tone is detected the panel hangs up and attempts another call. The panel will do this 3 times and if dial tone is still not detected it will make the call anyway. If blind dial is on, the panel skips the dial tone detection and dials 4 seconds after looping the line (used where non standard or low level dial tone exists).

Option 3 **Use Group Numbers for CID -** If this option is turned off, the panel will send separate account codes to report the four separate areas when using Contact ID. If the option is on the panel will use one account code (Area A) and send the group number to identify the four different areas.

Option 4 **Send Restores -** If this option is turned on, when an alarm is generated the panel automatically sends a restore when the alarm condition is reset. If the monitoring company does not want restores they may be turned off with this option.

Option 5 **Send Test call to Monitoring Station -** The automatic daily test call to a monitoring station can be enabled, if required, by turning on this option.

Option 6 **Add Pre-fix to this Telephone Number -** If this option is turned on, the dialling Prefix at address P830E will be dialled before the telephone number. This is useful if special digits are required to be dialled before the telephone number to bypass Toll Bars or other similar restrictions. This also allows a number to be longer than the 16 characters as the Prefix is also 16 characters long.

Option 7 **Dial using Long DTMF Tones -** It this option is turned off the panel will dial the telephone number using 75ms DTMF tones, if it is turned on the panel will dial using 100ms DTMF tones.

Option 8 **Ignore Kiss off in Domestic Mode -** If this option is turned on, the panel will not look for a kiss-off when reporting domestic mode alarms and will run to the maximum re-tries for the scenario then stop. NOTE: the event must be reported for auto-kiss-off to work, so “call progress” should be turned off if it is anticipated that a call could be engaged or unanswered, otherwise it will not get reported and then will not be kissed off automatically.

Note: P844E through P848E are as above but apply to telephone numbers 2-6

SYSTEM EVENTS SCENARIO MAPPING - P931E - P950E

These addresses are used to map System Events as listed below to one of the four possible reporting scenarios. If a value of zero (0) is assigned at an address in this block, that event will not be reported by the panel.

P931E Duress alarm mapped to scenario 1-4
P932E Keypad Panic Alarm mapped to scenario 1-4
P933E Keypad Fire Alarm mapped to scenario 1-4
P934E Keypad Medical Alarm mapped to scenario 1-4
P935E Battery low mapped to scenario 1-4
P936E Mains fail mapped to scenario 1-4
P937E Phone line restore mapped to scenario 1-4
P938E Radio PIR battery low mapped to scenario 1-4
P939E Radio-key battery low mapped to scenario 1-4
P940E Keypad tamper mapped to scenario 1-4
P941E Cabinet tamper mapped to scenario 1-4

P942E Zone tamper mapped to scenario 1-4
P943E "RF Interference" mapped to scenario 1-4
P944E Radio panic mapped to scenario 1-4
P945E Supervised radio timeout mapped to scenario 1-4
P946E Sensorwatch timeout mapped to scenario 1-4
P947E Test calls mapped to scenario 1-4
P948E Expander Fail mapped to scenario 1-4
P949E Expander Tamper mapped to scenario 1-4
P950E Callback mapped to scenario 1-4

PROGRAMMING TEST CALL OPTIONS - P816E - P817E

Because the panel has a real time clock, it is possible to assign test calls by day of the week and sync it to a particular time of the day.

P816E 0-7 **Test Call Days of the Week** - Where 1 = Sunday and 7 = Saturday. 0 = No Test
P817E HHMM **Test Call Time of Day** - Where the time of the day you wish the panel to make its daily test call is programmed in 24 hour format (HHMM).

CONTACT ID & SPEECH MESSAGE PROGRAMMING

CONTACT ID AREA ACCOUNT CODES - P676E, P776E, P876E & P976E

The special characters (B, C, D, E & F) can also be programmed at these locations (see chart on page 62 for details)

P676E XXXX **Account Code for Area "A"** - The Account code set at this address will be used to report all system events Arms and Disarms, zone activations, restores and bypasses etc from Area "A"
P776E XXXX **Account Code for Area "B"** - The account code set at this address will be used to report Arms and Disarms, zone activations, restores and bypasses etc from Area "B"
P876E XXXX **Account Code for Area "C"** - The account code set at this address will be used to report Arms and Disarms, zone activations, restores and bypasses etc from Area "C"
P976E XXXX **Account Code for Area "D"** - The account code set at this address will be used to report Arms and Disarms, zone activations, restores and bypasses etc from Area "D"

ZONE GROUP CONTACT ID ALARM REPORTING CODE - P551E-P570E

This is the Contact ID event code that the zone group will send when an alarm occurs on a zone assigned to that group. The default setting is "130" which means a burglar alarm message will be sent. If you have panic alarms, fire alarms or some other alarm type on specific groups you can re-program this code to identify the type of alarm correctly.

P571E	**XXX**	**Zone Group #1 Alarm reporting code**	Default = 130	0 = No Report
P572E	**XXX**	**Zone Group #2 Alarm reporting code**	Default = 130	
P573E	**XXX**	**Zone Group #3 Alarm reporting code**	Default = 130	
P574E	**XXX**	**Zone Group #4 Alarm reporting code**	Default = 130	
P575E	**XXX**	**Zone Group #5 Alarm reporting code**	Default = 130	
P576E	**XXX**	**Zone Group #6 Alarm reporting code**	Default = 130	
P577E	**XXX**	**Zone Group #7 Alarm reporting code**	Default = 130	
P578E	**XXX**	**Zone Group #8 Alarm reporting code**	Default = 130	
P579E	**XXX**	**Zone Group #9 Alarm reporting code**	Default = 130	
P580E	**XXX**	**Zone Group #10 Alarm reporting code**	Default = 130	
P581E	**XXX**	**Zone Group #11 Alarm reporting code**	Default = 130	
P582E	**XXX**	**Zone Group #12 Alarm reporting code**	Default = 130	
P583E	**XXX**	**Zone Group #13 Alarm reporting code**	Default = 130	
P584E	**XXX**	**Zone Group #14 Alarm reporting code**	Default = 130	
P585E	**XXX**	**Zone Group #15 Alarm reporting code**	Default = 130	
P586E	**XXX**	**Zone Group #16 Alarm reporting code**	Default = 130	
P587E	**XXX**	**Zone Group #17 Alarm reporting code**	Default = 130	
P588E	**XXX**	**Zone Group #18 Alarm reporting code**	Default = 130	
P589E	**XXX**	**Zone Group #19 Alarm reporting code**	Default = 130	
P590E	**XXX**	**Zone Group #20 Alarm reporting code**	Default = 130	

ZONE TAMPER ALARM CONTACT ID REPORTING CODES - P591E-P610E

This is the Contact ID event code that the zone group will send when a tamper alarm occurs on a zone assigned to that group. The default setting is “137” which means a tamper alarm message will be sent. If you wish to identify this alarm as some other alarm type on specific groups you can re-program this code to identify the type of alarm correctly.

P591E	**XXX**	**Zone Group #1 Tamper Alarm reporting code**	Default = 137	0 = No Report
P592E	**XXX**	**Zone Group #2 Tamper Alarm reporting code**	Default = 137	
P593E	**XXX**	**Zone Group #3 Tamper Alarm reporting code**	Default = 137	
P594E	**XXX**	**Zone Group #4 Tamper Alarm reporting code**	Default = 137	
P595E	**XXX**	**Zone Group #5 Tamper Alarm reporting code**	Default = 137	
P596E	**XXX**	**Zone Group #6 Tamper Alarm reporting code**	Default = 137	
P597E	**XXX**	**Zone Group #7 Tamper Alarm reporting code**	Default = 137	
P598E	**XXX**	**Zone Group #8 Tamper Alarm reporting code**	Default = 137	
P599E	**XXX**	**Zone Group #9 Tamper Alarm reporting code**	Default = 137	
P600E	**XXX**	**Zone Group #10 Tamper Alarm reporting code**	Default = 137	
P601E	**XXX**	**Zone Group #11 Tamper Alarm reporting code**	Default = 137	
P602E	**XXX**	**Zone Group #12 Tamper Alarm reporting code**	Default = 137	
P603E	**XXX**	**Zone Group #13 Tamper Alarm reporting code**	Default = 137	
P604E	**XXX**	**Zone Group #14 Tamper Alarm reporting code**	Default = 137	
P605E	**XXX**	**Zone Group #15 Tamper Alarm reporting code**	Default = 137	
P606E	**XXX**	**Zone Group #16 Tamper Alarm reporting code**	Default = 137	
P607E	**XXX**	**Zone Group #17 Tamper Alarm reporting code**	Default = 137	
P608E	**XXX**	**Zone Group #18 Tamper Alarm reporting code**	Default = 137	
P609E	**XXX**	**Zone Group #19 Tamper Alarm reporting code**	Default = 137	
P610E	**XXX**	**Zone Group #20 Tamper Alarm reporting code**	Default = 137	

KEYPAD ALARM CONTACT ID REPORTING CODES - P887E-P889E

This is the Contact ID event code that the Manually generated Keypad alarms will send when a triggered by a User. If you wish to identify these alarms as something different you can re-program the codes at the addresses below.

P887E	**XXX**	**“Panic” Keypad Alarm**	Default = 120
P888E	**XXX**	**“Fire” Keypad Alarm**	Default = 110
P889E	**XXX**	**“Medical” Keypad Alarm**	Default = 100

ZONE GROUP ALARM VOICE MESSAGE MAPPING - P511E - P530E

These addresses are used to assign the customised voice messages to the zone group alarms. The voice messages will be played over the phone in response to an alarm activation. The Voice messages will be reported to those phone numbers which have been assigned Speech Dial format at options P837E to P842E.

P511E	**0-99**	**Customised Voice Message Mapped to Zone Group # 1 Activation's** - Default 0
P512E	**0-99**	**Customised Voice Message Mapped to Zone Group # 2 Activation's** - Default 0
P513E	**0-99**	**Customised Voice Message Mapped to Zone Group # 3 Activation's** - Default 0
P514E	**0-99**	**Customised Voice Message Mapped to Zone Group # 4 Activation's** - Default 0
P515E	**0-99**	**Customised Voice Message Mapped to Zone Group # 5 Activation's** - Default 0
P516E	**0-99**	**Customised Voice Message Mapped to Zone Group # 6 Activation's** - Default 0
P517E	**0-99**	**Customised Voice Message Mapped to Zone Group # 7 Activation's** - Default 0
P518E	**0-99**	**Customised Voice Message Mapped to Zone Group # 8 Activation's** - Default 0
P519E	**0-99**	**Customised Voice Message Mapped to Zone Group # 9 Activation's** - Default 0
P520E	**0-99**	**Customised Voice Message Mapped to Zone Group # 10 Activation's** - Default 0
P521E	**0-99**	**Customised Voice Message Mapped to Zone Group # 11 Activation's** - Default 0
P522E	**0-99**	**Customised Voice Message Mapped to Zone Group # 12 Activation's** - Default 0
P523E	**0-99**	**Customised Voice Message Mapped to Zone Group # 13 Activation's** - Default 0
P524E	**0-99**	**Customised Voice Message Mapped to Zone Group # 14 Activation's** - Default 0
P525E	**0-99**	**Customised Voice Message Mapped to Zone Group # 15 Activation's** - Default 0
P526E	**0-99**	**Customised Voice Message Mapped to Zone Group # 16 Activation's** - Default 0
P527E	**0-99**	**Customised Voice Message Mapped to Zone Group # 17 Activation's** - Default 0
P528E	**0-99**	**Customised Voice Message Mapped to Zone Group # 18 Activation's** - Default 0
P529E	**0-99**	**Customised Voice Message Mapped to Zone Group # 19 Activation's** - Default 0
P530E	**0-99**	**Customised Voice Message Mapped to Zone Group # 20 Activation's** - Default 0

MISCELLANEOUS VOICE MESSAGE MAPPING - P1021E - P1029E

These addresses are used to assign the customised voice messages to the manually generated Panic/Fire/Medical alarms, battery low and mains failure, Radio Battery low, Supervisory Alarm and tamper alarm messages. The voice messages will be played over the phone to the numbers which have been assigned Speech Dial format at options P837E to P842E. If a "0" is programmed, there will be no voice message reported.

P1021E 0-99E Voice Message Mapped to Pendant "Panic" Alarm - Default 0
P1022E 0-99E Voice Message Mapped to Keypad "Panic" Alarm - Default 0
P1023E 0-99E Voice Message Mapped to Keypad "Fire" Alarm - Default 0
P1024E 0-99E Voice Message Mapped to Keypad "Medical" Alarm - Default 0
P1025E 0-99E Voice Message Mapped to Battery Low Alarm - Default 0
P1026E 0-99E Voice Message Mapped to Mains Failure Alarm - Default 0
P1027E 0-99E Voice Message Mapped to Radio Device Low battery - Default 0
P1028E 0-99E Voice Message Mapped to Radio Supervisory Failure Alarm - Default 0
P1029E 0-99E Voice Message Mapped to Zone or System Tamper Alarm - Default 0

MISCELLANEOUS DIALLER OPTIONS

KEYPAD LISTEN-IN OPTIONS

The buzzer on the LCD keypad can be used to listen to the dialler during various On-line states. If this option is not wanted you must turn off all of the options at this address. It is a very useful tool for testing the dialler on a new installation when sending signals to monitoring stations or calls to cell-phones, etc, as the installer can hear the call being made to verify correct operation.

P747E
1 = Enabled During Dialling in Disarm State only
2 = Enabled During Dialling in Armed State only
3 = Enabled During Dialling in Stay Mode State only
4 = Enabled Throughout the call in Disarm State only
5 = Enabled Throughout the call in Armed State only
6 = Enabled Throughout the call in Stay Mode State only
7 = Listen-in Enabled when the panel answers a call
8 = Delay hangup on Voice Alarm kissoff & turn on O/P 4

P747E option 8 special function mode - If option 8 is turned on at address P747E, the dialler will delay hanging up the call following kiss-off during a Voice Mode alarm and also turn on Output # 4 for the same period. The hang-up delay and the time Output 4 will turn on are linked to the output 4 Pulse timer (P924E). If output 4 pulse timer is set to a value of 50 (50 1/10 sec), the hang-up delay and output 4 on time will be 5 seconds. This option ONLY applies to kiss-off in Voice Mode reporting.
To ensure that no unwanted functions are assigned to Output 4 you should first clear all of the defaults for Output 4 at address P1106E, eg press P1106E4E. This will remove all default alarm conditions assigned to O/P 4.
Then set the required hang-up and output ON delay time at address P924E eg P924E50E will give a 5 second hang-up delay and output on time. The hang-up delay and output on time will only begin after all alarm events have been kissed off. If multiple alarm events occur and are reported during a call you MUST kiss-off all messages before the hang-up and output delay will begin. To let the person kissing off the alarm know that all messages have been acknowledged, it is advisable to record an "Output 4 ON" message for output 4 and assign this message number at address P1034E. When all alarm messages have been kissed off and the delay is about to begin, the message "Output 4 ON" will be heard so the person knows the timer has started.

LISTEN-IN to OUTPUT # 1 OPTIONS

If an 8 Ohm horn speaker is connected to output 1, it can also be used to listen to the dialler during various On-line states. It is a very useful tool for testing the dialler on a new installation when sending signals to monitoring stations or calls to cell-phones, etc plus it can provide audible verification that the dialler is working to the users of the alarm system.

P748E
1 = Enabled During Dialling in Disarm State only
2 = Enabled During Dialling in Armed State only
3 = Enabled During Dialling in Stay Mode State only

4 = Enabled Throughout the call in Disarm State only
5 = Enabled Throughout the call in Armed State only
6 = Enabled Throughout the call in Stay Mode State only
7 = Listen-in Enabled when the panel answers a call
8 = Hold Line Open after a Voice/Domestic Kiss-off.

P748E option 8 special function mode - If option 8 is turned on at address P748E, the dialler will delay hanging up the call in Voice Mode following kiss-off and place the panel in DTMF remote control mode. The panel will send the modem tones and look for DTMF remote control codes in the quiet period. If no DTMF codes are received within 15 seconds the panel will hang-up. This option will NOT work if Option 8 at P747E is turned on.

AUTO-ANSWER RING COUNT

P900E 1-99 **Auto-Answer Rings** - This option defines the number of rings before the panel will auto-answer the incoming call.

MAINS FAIL REPORT DELAY

P909E 0-999 **Mains (AC) Fail Report Delay** - The panel, and expanders, are constantly checking that the mains (AC) supply is present. If the mains supply fails, the dialler will delay reporting the failure for the duration of the value programmed at this address. If the mains returns before this timer expires the timer is reset and no mains fail event will be reported. A value from 0-999 seconds can be programmed as the delay. A value of 0 will result in an instant report of mains failure.

ZONE ALARM REPORT DELAY

P910E 0-999 **Report Delay on Zones** - This delay pauses the reporting of zone alarms via the dialler for the programmed period (0 = No delay). A value from 0-999 seconds can be programmed as the delay. If the alarm is disarmed before this delay expires no alarms will be reported. The delay pauses the reporting of zone alarms for all reporting formats. The delay can be used to prevent false alarms from reporting if the user created an alarm on entry in error.

UPLOAD/DOWNLOAD SECURITY OPTIONS

P746E **XXXXXXXX**. Up to 8 digit security code for upload/download. The security code in the panel must match that programmed into the PC before data transfer can occur.

P1095E **Answer incoming call** - provided a user who has option 4 turned on at addresses P221E-P240E then enters in P1095E while in client program mode and the telephone line is currently ringing, the panel will answer the incoming call and initiate an upload/download connection.

PROGRAMMING 4+2 REPORT CODES

PROGRAMMING 4+2 REPORT CODES

When programming 4+2 report codes (see pages 89-97) you can enter in the digits 1234567890 plus the following special characters BCDEF. If you enter in a value of “00” or press the “Control” & “0” button after a 4+2 program address then the selected option will not report via the dialler e.g. P1315E-00-E or P1315E-Control-0-E will disable keypad panic alarm reporting in 4+2 mode. When using the “Control” “0” keys you must press and hold the Control key first then press the 0 key within 2 seconds.
The 4+2 event codes must be 2 digits but they can be in any order e.g.;

P1315E-01-E, or P1315E-C6-E, or P1315E-4F-E, etc.

In the above examples, the letters are programmed using the special function keys listed in the table below. When displaying the data back at the keypad the associated keypad indications are also listed against the special letters B-F. (NOTE: A value of “0” in 4+2 will be transmitted as 10 pulses to the monitoring station).

Character	LCD KP Special Function Key	Displayed as On LCD KP
“B”	“Control” ”2”	B
“C”	“Control” ”3”	C
“D”	“Control” ”4”	D
“E”	“Control” ”5”	E
“F”	“Control” ”6”	F

COMMON CONTACT ID CODES

Medical Alarm	100	Low Temperature	159
Medical Pendant	101	High Temperature	158
Fire Alarm	110	Refrigeration Alarm	152
Smoke Detector	111	Water Leakage	154
Heat Detector	114	Gas Detector	151
Manual Call Point	115		
Duct Detector	116		
Silent Panic	122		
Audible Panic	123		
Perimeter Zone	131		
24 Hour Zone	133		
Entry Exit Zone	134		

COMMAND CONTROL OPTIONS

A very useful feature available from the panel is the DTMF remote Command Control. For this function to work you must have the optional Voice Board fitted to the panel. When the Voice Board is fitted the panel can provide remote control of arming & disarming plus turn selected outputs on or off with speech prompts using a standard touch tone telephone. The owner can check or change the Arm/Disarm status of each of the areas, operate each of the eight outputs or turn on the optional Microphone.

REMOTE COMMAND CONTROL CODES

Before remote Command Control features can be used the 4 digit DTMF control codes must be programmed. The DTMF codes can be 1-4 digits in length. There is a code for each area, another to control all of the 8 outputs and one more to turn on or off the Microphone input.
The addresses for the DTMF Command Control codes are;

P881E XXXX **4 Digit Code for Area "A" Command Control** - This is the code used to Arm or Disarm Area "A" via the telephone.

P882E XXXX **4 Digit Code for Area "B" Command Control** - This is the code used to Arm or Disarm Area "B" via the telephone.

P883E XXXX **4 Digit Code for Area "C" Command Control** - This is the code used to Arm or Disarm Area "C" via the telephone.

P884E XXXX **4 Digit Code for Area "D" Command Control** - This is the code used to Arm or Disarm Area "D" via the telephone.

P885E XXXX **4 Digit Code for Output Command Control** - This is the code used to access the Output Command menu. A number from 1-8 is entered after this code to select the output you wish to control (for this feature to work, option 5 at addresses P681E to P688E must be turned on).

P886E XXXX **4 Digit Code to Turn ON Microphone** - This is the code used to turn the microphone input on so that the user can listen for any foreign sounds at the secured premises.

PROGRAMMING THE "ARM" MESSAGE

When programming messages into the Voice board, you must always program the area Arm message first followed immediately by the Disarm message for the same area. When programming the area Arm message the panel will always assume that the Disarm message will be the next message (eg if the Area A arm message is message number 1, the panel will assume that the Area A disarm message will be message number 2).

P1001E XX **Area "A" Arm message number** - This is the customised message number to play when Area "A" is armed remotely by Command Control.

P1002E XX **Area "B" Arm message number** - This is the customised message number to play when Area "B" is armed remotely by Command Control.

P1003E XX **Area "C" Arm message number** - This is the customised message number to play when Area "C" is armed remotely by Command Control.

P1004E XX **Area "D" Arm message number** - This is the customised message number to play when Area "D" is armed remotely by Command Control.

PROGRAMMING THE "ON" MESSAGE FOR "OUTPUTS"

When programming messages into the Voice board, you must always program the output On message first followed immediately by the output Off message for the same output. When programming the output On message the panel will always assume that the output Off message will be the next message (eg if the output number 5 On message is message number 16, the panel will assume that the output number 5 Off message will be message number 17).

P1031E XX **Output #1 ON message number** - This is the customised message number to play when Output #1 turns ON remotely by Command Control.

P1032E XX **Output #2 ON message number** - This is the customised message number to play when Output #2 turns ON remotely by Command Control.

P1033E XX **Output #3 ON message number** - This is the customised message number to play when Output #3 turns ON remotely by Command Control.

P1034E XX **Output #4 ON message number** - This is the customised message number to play when Output #4 turns ON remotely by Command Control.

P1035E XX **Output #5 ON message number** - This is the customised message number to play when Output #5 turns ON remotely by Command Control.

P1036E XX **Output #6 ON message number** - This is the customised message number to play when Output

#6 turns ON remotely by Command Control.

P1037E XX **Output #7 ON message number** - This is the customised message number to play when Output #7 turns ON remotely by Command Control.

P1038E XX **Output #8 ON message number** - This is the customised message number to play when Output #8 turns ON remotely by Command Control.

COMMAND CONTROL OPERATION

Command Control is a powerful, easy to use feature that allows remote control of your alarm system. User operation of the Command Control has been designed to be as simple and user friendly as possible. Customised voice status messages guide you through the many control options. Because the voice status messages can be recorded on-site they can be customised to suit each specific application. For example, rather than the status message saying "*Output #1 off*" you can record a message which describes exactly what is being controlled like "*Factory heating off*"

In the previous section you would have seen how you program access codes to allow Command Control of the Areas and Outputs. These are the codes you will enter over the phone to control the desired function. In order to start the Command Control feature you must first ring the phone number that the panel is connected to. The panel may be set up to answer after a specific number of rings or it may be set-up to use a fax defeat option. Either way, when you ring the telephone number and the panel answers the call, the first thing you will hear over the phone is a burst of modem tones for two seconds. After the tones have stopped there will be a quiet period of 5 seconds (pause) at which time you can enter the access code associated with the Command menu you wish to control. *Remember, the code you enter will determine which menu option you access*. If you miss the 5 second pause, the panel will repeat the modem tones and then again pause for 5 seconds looking for your access code. This process will be repeated 4 times before hanging up if no valid code is received. When entering codes or other information in Command Control the "#" key acts as a "*Clear*" button.

When you have entered the required 1-4 digit access code the panel will reply with the status message associated with the option being controlled.
For example, if the code programmed at address P881E (the Arm/Disarm code for Area A) was “2045”, and the user entered in this code at the remote telephone, the panel will check the current status of Area A and reply with the customised voice message assigned at address P1001E. In this example if Area A was Armed then the message number programmed at P1001E will be played, if Area A was Disarmed then the message number immediately following the one programmed at P1001E will be played (assuming that the disarm message will always follow the corresponding arm message).

Once the status message has informed you of the actual state, you can use the " * " key to toggle the Arm/Disarm or On/Off function, e.g. in our example above, code 2045 accesses the Area "A" arm/disarm function. Assuming the status message we received indicated that Area A was Armed. If we press the " * " key, Area "A" will be Disarmed and we would receive a status message indicating that Area A was now Disarmed.

While you are on-line with the panel you can move between menu options by entering a new code for the next option you want to control. Assuming there was a code of “4321” programmed at address P885E to control outputs. After having used code “2045” to control the Arm/Disarm status of Area A you would first press the “ # ” button to reset all previous entries then you can enter the digits “4321” followed by the output number you wish to control, eg 5. The current status of output # 5 will be checked and the customised voice message programmed at P1035E played. In this example if Output 5 was On then the message number programmed at P1035E will be played, if Output 5 was Off then the message number immediately following the one programmed at P1035E will be played (assuming that the output off message will always follow the corresponding on message).

Once the status message has informed you of the actual state of the output, you can use the " * " key to toggle the Output On or Off.
At any stage, if you enter in an incorrect code you can press the “ # ” button on the remote telephone to clear all code entries and then start again.

To end a Command Control session simply hang up the phone. The panel is monitoring the line at all times and 15 seconds after the last key press it will automatically hang up the line. This 15 second timer is active during the whole command control process so a period of 15 seconds without a key press will cause the panel to hang-up (unless the microphone input is turned on in which case the panel will stay on-line for a period of 60 seconds from the last key press).

LOCAL COMMAND CONTROL OF OUTPUTS

If a command control code for outputs is programmed (P885E) and the output/s are allowed to be locally controlled (P681E-P688E, option 6 on) then entering the 4 digit code programmed at P885E at a keypad will allow direct control of the outputs. The LCD display will show “OUTPUTS” to indicate that local command control is active. At this stage

any outputs that are on will be shown on the LCD display e.g. if output 1 is on the number 1 will be on. By pressing the “1” button at the panel keypad, output 1 can be turned off provided it is allowed to be locally controlled. To leave local command control mode simply press the “Enter” button and the keypad will return to normal operation. If the “Control” button is enabled at address P786E, and the outputs can be locally controlled, then you can access this Local Command Control mode directly by simply pressing the “Control” button at the keypad. The LCD display will show “OUTPUTS” to indicate that local command control is active and you can control outputs as described above.

ELITE 64 PROGRAM SUMMARY GUIDE

The following program summary is an abbreviated version of all the Elite program addresses. This is intended as a quick guide to finding a program address. The program addresses are in numerical order with page references beside them so you can get more detailed information if required. **Because this section is in numerical order, any addresses relating to the Dialler are not necessarily grouped together. To identify Dialler options each heading relating to the Dialler are highlighted by an " ** " either side of the heading.**

CLIENT MODE PROGRAMMING

Programming User Codes

P1E User Code #1 (Master Code) if deleted code is reset to 987654 - Default 123 Page 19
P2E User Code #2
P3E User Code #3
P4E User Code #4
P5E User Code #5
P6E User Code #6
P7E User Code #7
P8E User Code #8
P9E User Code #9
P10E User Code #10
P11E User Code #11
P12E User Code #12
P13E User Code #13
P14E User Code #14
P15E User Code #15
P16E User Code #16
P17E User Code #17
P18E User Code #18
P19E User Code #19
P20E User Code #20
P21E User Code #21
P22E User Code #22
P23E User Code #23
P24E User Code #24
P25E User Code #25
P26E User Code #26
P27E User Code #27
P28E User Code #28
P29E User Code #29
P30E User Code #30
P31E User Code #31
P32E User Code #32
P33E User Code #33
P34E User Code #34
P35E User Code #35
P36E User Code #36
P37E User Code #37
P38E User Code #38
P39E User Code #39
P40E User Code #40
P41E User Code #41
P42E User Code #42
P43E User Code #43
P44E User Code #44
P45E User Code #45
P46E User Code #46
P47E User Code #47
P48E User Code #48
P49E User Code #49
P50E User Code #50
P51E User Code #51
P52E User Code #52
P53E User Code #53

P54E User Code #54
P55E User Code #55
P56E User Code #56
P57E User Code #57
P58E User Code #58
P59E User Code #59
P60E User Code #60
P61E User Code #61
P62E User Code #62
P63E User Code #63
P64E User Code #64
P65E User Code #65
P66E User Code #66
P67E User Code #67
P68E User Code #68
P69E User Code #69
P70E User Code #70
P71E User Code #71
P72E User Code #72
P73E User Code #73
P74E User Code #74
P75E User Code #75
P76E User Code #76
P77E User Code #77
P78E User Code #78
P79E User Code #79
P80E User Code #80
P81E User Code #81
P82E User Code #82
P83E User Code #83
P84E User Code #84
P85E User Code #85
P86E User Code #86
P87E User Code #87
P88E User Code #88
P89E User Code #89
P90E User Code #90
P91E User Code #91
P92E User Code #92
P93E User Code #93
P94E User Code #94
P95E User Code #95
P96E User Code #96
P97E User Code #97
P98E User Code #98
P99E User Code #99
P100E User Code #100

INSTALLER PROGRAM MODE

Programming User Code Group Number

P101E User Code #1 Group Number 1-20 - Default = 1
P102E User Code #2 Group Number 1-20 - Default = 1
P103E User Code #3 Group Number 1-20 - Default = 1
P104E User Code #4 Group Number 1-20 - Default = 1
P105E User Code #5 Group Number 1-20 - Default = 1
P106E User Code #6 Group Number 1-20 - Default = 1
P107E User Code #7 Group Number 1-20 - Default = 1
P108E User Code #8 Group Number 1-20 - Default = 1
P109E User Code #9 Group Number 1-20 - Default = 1
P110E User Code #10 Group Number 1-20 - Default = 1
P111E User Code #11 Group Number 1-20 - Default = 1
P112E User Code #12 Group Number 1-20 - Default = 1
P113E User Code #13 Group Number 1-20 - Default = 1
P114E User Code #14 Group Number 1-20 - Default = 1

P115E User Code #15 Group Number 1-20 - Default = 1
P116E User Code #16 Group Number 1-20 - Default = 1
P117E User Code #17 Group Number 1-20 - Default = 1
P118E User Code #18 Group Number 1-20 - Default = 1
P119E User Code #19 Group Number 1-20 - Default = 1
P120E User Code #20 Group Number 1-20 - Default = 1
P121E User Code #21 Group Number 1-20 - Default = 1
P122E User Code #22 Group Number 1-20 - Default = 1
P123E User Code #23 Group Number 1-20 - Default = 1
P124E User Code #24 Group Number 1-20 - Default = 1
P125E User Code #25 Group Number 1-20 - Default = 1
P126E User Code #26 Group Number 1-20 - Default = 1
P127E User Code #27 Group Number 1-20 - Default = 1
P128E User Code #28 Group Number 1-20 - Default = 1
P129E User Code #29 Group Number 1-20 - Default = 1
P130E User Code #30 Group Number 1-20 - Default = 1
P131E User Code #31 Group Number 1-20 - Default = 1
P132E User Code #32 Group Number 1-20 - Default = 1
P133E User Code #33 Group Number 1-20 - Default = 1
P134E User Code #34 Group Number 1-20 - Default = 1
P135E User Code #35 Group Number 1-20 - Default = 1
P136E User Code #36 Group Number 1-20 - Default = 1
P137E User Code #37 Group Number 1-20 - Default = 1
P138E User Code #38 Group Number 1-20 - Default = 1
P139E User Code #39 Group Number 1-20 - Default = 1
P140E User Code #40 Group Number 1-20 - Default = 1
P141E User Code #41 Group Number 1-20 - Default = 1
P142E User Code #42 Group Number 1-20 - Default = 1
P143E User Code #43 Group Number 1-20 - Default = 1
P144E User Code #44 Group Number 1-20 - Default = 1
P145E User Code #45 Group Number 1-20 - Default = 1
P146E User Code #46 Group Number 1-20 - Default = 1
P147E User Code #47 Group Number 1-20 - Default = 1
P148E User Code #48 Group Number 1-20 - Default = 1
P149E User Code #49 Group Number 1-20 - Default = 1
P150E User Code #50 Group Number 1-20 - Default = 1
P151E User Code #51 Group Number 1-20 - Default = 1
P152E User Code #52 Group Number 1-20 - Default = 1
P153E User Code #53 Group Number 1-20 - Default = 1
P154E User Code #54 Group Number 1-20 - Default = 1
P155E User Code #55 Group Number 1-20 - Default = 1
P156E User Code #56 Group Number 1-20 - Default = 1
P157E User Code #57 Group Number 1-20 - Default = 1
P158E User Code #58 Group Number 1-20 - Default = 1
P159E User Code #59 Group Number 1-20 - Default = 1
P160E User Code #60 Group Number 1-20 - Default = 1
P161E User Code #61 Group Number 1-20 - Default = 1
P162E User Code #62 Group Number 1-20 - Default = 1
P163E User Code #63 Group Number 1-20 - Default = 1
P164E User Code #64 Group Number 1-20 - Default = 1
P165E User Code #65 Group Number 1-20 - Default = 1
P166E User Code #66 Group Number 1-20 - Default = 1
P167E User Code #67 Group Number 1-20 - Default = 1
P168E User Code #68 Group Number 1-20 - Default = 1
P169E User Code #69 Group Number 1-20 - Default = 1
P170E User Code #70 Group Number 1-20 - Default = 1
P171E User Code #71 Group Number 1-20 - Default = 1
P172E User Code #72 Group Number 1-20 - Default = 1
P173E User Code #73 Group Number 1-20 - Default = 1
P174E User Code #74 Group Number 1-20 - Default = 1
P175E User Code #75 Group Number 1-20 - Default = 1
P176E User Code #76 Group Number 1-20 - Default = 1
P177E User Code #77 Group Number 1-20 - Default = 1
P178E User Code #78 Group Number 1-20 - Default = 1
P179E User Code #79 Group Number 1-20 - Default = 1

P180E User Code #80 Group Number 1-20 - Default = 1
P181E User Code #81 Group Number 1-20 - Default = 1
P182E User Code #82 Group Number 1-20 - Default = 1
P183E User Code #83 Group Number 1-20 - Default = 1
P184E User Code #84 Group Number 1-20 - Default = 1
P185E User Code #85 Group Number 1-20 - Default = 1
P186E User Code #86 Group Number 1-20 - Default = 1
P187E User Code #87 Group Number 1-20 - Default = 1
P188E User Code #88 Group Number 1-20 - Default = 1
P189E User Code #89 Group Number 1-20 - Default = 1
P190E User Code #90 Group Number 1-20 - Default = 1
P191E User Code #91 Group Number 1-20 - Default = 1
P192E User Code #92 Group Number 1-20 - Default = 1
P193E User Code #93 Group Number 1-20 - Default = 1
P194E User Code #94 Group Number 1-20 - Default = 1
P195E User Code #95 Group Number 1-20 - Default = 1
P196E User Code #96 Group Number 1-20 - Default = 1
P197E User Code #97 Group Number 1-20 - Default = 1
P198E User Code #98 Group Number 1-20 - Default = 1
P199E User Code #99 Group Number 1-20 - Default = 1
P200E User Code #100 Group Number 1-20 - Default = 1

User Groups 1-20 Arm/Disarm Options

P201E User Arm/Disarm Options for Group #1 - Default 1 - 8
P202E User Arm/Disarm Options for Group #2 - Default 1,5,6
P203E User Arm/Disarm Options for Group #3 - Default 1,5,6
P204E User Arm/Disarm Options for Group #4 - Default 1,5,6
P205E User Arm/Disarm Options for Group #5 - Default 1,5,6
P206E User Arm/Disarm Options for Group #6 - Default 1,5,6
P207E User Arm/Disarm Options for Group #7 - Default 1,5,6
P208E User Arm/Disarm Options for Group #8 - Default 1,5,6
P209E User Arm/Disarm Options for Group #9 - Default 1,5,6
P210E User Arm/Disarm Options for Group #10 - Default 1,5,6
P211E User Arm/Disarm Options for Group #11 - Default 1,5,6
P212E User Arm/Disarm Options for Group #12 - Default 1,5,6
P213E User Arm/Disarm Options for Group #13 - Default 1,5,6
P214E User Arm/Disarm Options for Group #14 - Default 1,5,6
P215E User Arm/Disarm Options for Group #15 - Default 1,5,6
P216E User Arm/Disarm Options for Group #16 - Default 1,5,6
P217E User Arm/Disarm Options for Group #17 - Default 1,5,6
P218E User Arm/Disarm Options for Group #18 - Default 1,5,6
P219E User Arm/Disarm Options for Group #19 - Default 1,5,6
P220E User Arm/Disarm Options for Group #20 - Default 1,5,6

User Groups Arm/Disarm Opts. Page 19
1 = Area "A"
2 = Area "B"
3 = Area "C"
4 = Area "D"
5 = Code can arm
6 = Code can disarm
7 = Code can arm stay mode
8 = Code can disarm stay mode

(To allow a Code/Pendant to control an Output P261-300E turn all of the above options off for the Group to be assigned to the Code/pendant).

User Groups 1-20 Miscellaneous Options

P221E User Group #1 Miscellaneous Options - Default 1-7
P222E User Group #2 Miscellaneous Options - Default 5
P223E User Group #3 Miscellaneous Options - Default 5
P224E User Group #4 Miscellaneous Options - Default 5
P225E User Group #5 Miscellaneous Options - Default 5
P226E User Group #6 Miscellaneous Options - Default 5
P227E User Group #7 Miscellaneous Options - Default 5
P228E User Group #8 Miscellaneous Options - Default 5
P229E User Group #9 Miscellaneous Options - Default 5
P230E User Group #10 Miscellaneous Options - Default 5
P231E User Group #11 Miscellaneous Options - Default 5
P232E User Group #12 Miscellaneous Options - Default 5
P233E User Group #13 Miscellaneous Options - Default 5
P234E User Group #14 Miscellaneous Options - Default 5
P235E User Group #15 Miscellaneous Options - Default 5
P236E User Group #16 Miscellaneous Options - Default 5
P237E User Group #17 Miscellaneous Options - Default 5
P238E User Group #18 Miscellaneous Options - Default 5
P239E User Group #19 Miscellaneous Options - Default 5
P240E User Group #20 Miscellaneous Options - Default 5

User Groups Misc. Opts. Page 20
1 = Can change telephone #'s
2 = Can change Clock
3 = Can Print Event Memory
4 = Answer In-coming call or Start Callback
5 = Can change Their Code
6 = Can change All Codes
7 = Allow access to Installer Mode
8 = Latchkey Arming

(**If the User has Option 6 then they can also start the Walk-test Mode)**

(**If the User has option 7 then they can start the Walk-test Mode & do RSSI check)**

User Groups 1-20 Radio Pendant Options

P241E User Group #1 Radio Pendant Options - Default 0
P242E User Group #2 Radio Pendant Options - Default 0
P243E User Group #3 Radio Pendant Options - Default 0
P244E User Group #4 Radio Pendant Options - Default 0
P245E User Group #5 Radio Pendant Options - Default 0
P246E User Group #6 Radio Pendant Options - Default 0
P247E User Group #7 Radio Pendant Options - Default 0
P248E User Group #8 Radio Pendant Options - Default 0
P249E User Group #9 Radio Pendant Options - Default 0
P250E User Group #10 Radio Pendant Options - Default 0
P251E User Group #11 Radio Pendant Options - Default 0
P252E User Group #12 Radio Pendant Options - Default 0
P253E User Group #13 Radio Pendant Options - Default 0
P254E User Group #14 Radio Pendant Options - Default 0
P255E User Group #15 Radio Pendant Options - Default 0
P256E User Group #16 Radio Pendant Options - Default 0
P257E User Group #17 Radio Pendant Options - Default 0
P258E User Group #18 Radio Pendant Options - Default 0
P259E User Group #19 Radio Pendant Options - Default 0
P260E User Group #20 Radio Pendant Options - Default 0

User Groups Pendant Opts. Page 21
1 = Pendant Disabled in Alarm
2 = Immediate Panic Alarm
3 = Delayed Panic Alarm (1.5s)
4 = Spare
5 = Spare
6 = Spare
7 = Spare
8 = Spare

User Groups 1-20 Pendant Type Settings

P261E User Group #1 Radio Pendant Type - Default 0
P262E User Group #2 Radio Pendant Type - Default 0
P263E User Group #3 Radio Pendant Type - Default 0
P264E User Group #4 Radio Pendant Type - Default 0
P265E User Group #5 Radio Pendant Type - Default 0
P266E User Group #6 Radio Pendant Type - Default 0
P267E User Group #7 Radio Pendant Type - Default 0
P268E User Group #8 Radio Pendant Type - Default 0
P269E User Group #9 Radio Pendant Type - Default 0
P270E User Group #10 Radio Pendant Type - Default 0
P271E User Group #11 Radio Pendant Type - Default 0
P272E User Group #12 Radio Pendant Type - Default 0
P273E User Group #13 Radio Pendant Type - Default 0
P274E User Group #14 Radio Pendant Type - Default 0
P275E User Group #15 Radio Pendant Type - Default 0
P276E User Group #16 Radio Pendant Type - Default 0
P277E User Group #17 Radio Pendant Type - Default 0
P278E User Group #18 Radio Pendant Type - Default 0
P279E User Group #19 Radio Pendant Type - Default 0
P280E User Group #20 Radio Pendant Type - Default 0

User Groups Pendant Type. Page 22
0 = Generic Pendant
1 = Crow
21 = Ness

User Groups 1-20 Outputs to turn On

P281E User Group #1 Outputs 1-8 to turn On - Default 0
P282E User Group #2 Outputs 1-8 to turn On - Default 0
P283E User Group #3 Outputs 1-8 to turn On - Default 0
P284E User Group #4 Outputs 1-8 to turn On - Default 0
P285E User Group #5 Outputs 1-8 to turn On - Default 0
P286E User Group #6 Outputs 1-8 to turn On - Default 0
P287E User Group #7 Outputs 1-8 to turn On - Default 0
P288E User Group #8 Outputs 1-8 to turn On - Default 0
P289E User Group #9 Outputs 1-8 to turn On - Default 0
P290E User Group #10 Outputs 1-8 to turn On - Default 0
P291E User Group #11 Outputs 1-8 to turn On - Default 0
P292E User Group #12 Outputs 1-8 to turn On - Default 0
P293E User Group #13 Outputs 1-8 to turn On - Default 0
P294E User Group #14 Outputs 1-8 to turn On - Default 0
P295E User Group #15 Outputs 1-8 to turn On - Default 0
P296E User Group #16 Outputs 1-8 to turn On - Default 0
P297E User Group #17 Outputs 1-8 to turn On - Default 0
P298E User Group #18 Outputs 1-8 to turn On - Default 0
P299E User Group #19 Outputs 1-8 to turn On - Default 0
P300E User Group #20 Outputs 1-8 to turn On - Default 0

User Groups Outputs On. Page 22

(See P201-P220E)

User Groups 1-20 Outputs to turn Off

P301E User Group #1 Outputs 1-8 to turn Off - Default 0
P302E User Group #2 Outputs 1-8 to turn Off - Default 0
P303E User Group #3 Outputs 1-8 to turn Off - Default 0
P304E User Group #4 Outputs 1-8 to turn Off - Default 0
P305E User Group #5 Outputs 1-8 to turn Off - Default 0
P306E User Group #6 Outputs 1-8 to turn Off - Default 0
P307E User Group #7 Outputs 1-8 to turn Off - Default 0
P308E User Group #8 Outputs 1-8 to turn Off - Default 0
P309E User Group #9 Outputs 1-8 to turn Off - Default 0
P310E User Group #10 Outputs 1-8 to turn Off - Default 0
P311E User Group #11 Outputs 1-8 to turn Off - Default 0
P312E User Group #12 Outputs 1-8 to turn Off - Default 0
P313E User Group #13 Outputs 1-8 to turn Off - Default 0
P314E User Group #14 Outputs 1-8 to turn Off - Default 0
P315E User Group #15 Outputs 1-8 to turn Off - Default 0
P316E User Group #16 Outputs 1-8 to turn Off - Default 0
P317E User Group #17 Outputs 1-8 to turn Off - Default 0
P318E User Group #18 Outputs 1-8 to turn Off - Default 0
P319E User Group #19 Outputs 1-8 to turn Off - Default 0
P320E User Group #20 Outputs 1-8 to turn Off - Default 0

User Groups Outputs Off. Page 23

(See P201-P220E)

User Groups 1-20 Time Zone Control

P321E User Group #1 Time Zones 1-8 - Default 0
P322E User Group #2 Time Zones 1-8 - Default 0
P323E User Group #3 Time Zones 1-8 - Default 0
P324E User Group #4 Time Zones 1-8 - Default 0
P325E User Group #5 Time Zones 1-8 - Default 0
P326E User Group #6 Time Zones 1-8 - Default 0
P327E User Group #7 Time Zones 1-8 - Default 0
P328E User Group #8 Time Zones 1-8 - Default 0
P329E User Group #9 Time Zones 1-8 - Default 0
P330E User Group #10 Time Zones 1-8 - Default 0
P331E User Group #11 Time Zones 1-8 - Default 0
P332E User Group #12 Time Zones 1-8 - Default 0
P333E User Group #13 Time Zones 1-8 - Default 0
P334E User Group #14 Time Zones 1-8 - Default 0
P335E User Group #15 Time Zones 1-8 - Default 0
P336E User Group #16 Time Zones 1-8 - Default 0
P337E User Group #17 Time Zones 1-8 - Default 0
P338E User Group #18 Time Zones 1-8 - Default 0
P339E User Group #19 Time Zones 1-8 - Default 0
P340E User Group #20 Time Zones 1-8 - Default 0

User Groups Time Zones. Page 23

Zone Group Number 1-20 Assignment

P341E Zone 1 option Group # 1-20 - default 1
P342E Zone 2 option Group # 1-20 - default 2
P343E Zone 3 option Group # 1-20 - default 2
P344E Zone 4 option Group # 1-20 - default 2
P345E Zone 5 option Group # 1-20 - default 2
P346E Zone 6 option Group # 1-20 - default 2
P347E Zone 7 option Group # 1-20 - default 2
P348E Zone 8 option Group # 1-20 - default 2
P349E Zone 9 option Group # 1-20 - default 2
P350E Zone 10 option Group # 1-20 - default 2
P351E Zone 11 option Group # 1-20 - default 2
P352E Zone 12 option Group # 1-20 - default 2
P353E Zone 13 option Group # 1-20 - default 2
P354E Zone 14 option Group # 1-20 - default 2
P355E Zone 15 option Group # 1-20 - default 2
P356E Zone 16 option Group # 1-20 - default 2
P357E Zone 17 option Group # 1-20 - default 0
P358E Zone 18 option Group # 1-20 - default 0
P359E Zone 19 option Group # 1-20 - default 0
P360E Zone 20 option Group # 1-20 - default 0

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P361E Zone 21 option Group # 1-20 - default 0
P362E Zone 22 option Group # 1-20 - default 0
P363E Zone 23 option Group # 1-20 - default 0
P364E Zone 24 option Group # 1-20 - default 0
P365E Zone 25 option Group # 1-20 - default 0
P366E Zone 26 option Group # 1-20 - default 0
P367E Zone 27 option Group # 1-20 - default 0
P368E Zone 28 option Group # 1-20 - default 0
P369E Zone 29 option Group # 1-20 - default 0
P370E Zone 30 option Group # 1-20 - default 0
P371E Zone 31 option Group # 1-20 - default 0
P372E Zone 32 option Group # 1-20 - default 0
P373E Zone 33 option Group # 1-20 - default 0
P374E Zone 34 option Group # 1-20 - default 0
P375E Zone 35 option Group # 1-20 - default 0
P376E Zone 36 option Group # 1-20 - default 0
P377E Zone 37 option Group # 1-20 - default 0
P378E Zone 38 option Group # 1-20 - default 0
P379E Zone 39 option Group # 1-20 - default 0
P380E Zone 40 option Group # 1-20 - default 0
P381E Zone 41 option Group # 1-20 - default 0
P382E Zone 42 option Group # 1-20 - default 0
P383E Zone 43 option Group # 1-20 - default 0
P384E Zone 44 option Group # 1-20 - default 0
P385E Zone 45 option Group # 1-20 - default 0
P386E Zone 46 option Group # 1-20 - default 0
P387E Zone 47 option Group # 1-20 - default 0
P388E Zone 48 option Group # 1-20 - default 0
P389E Zone 49 option Group # 1-20 - default 0
P390E Zone 50 option Group # 1-20 - default 0
P391E Zone 51 option Group # 1-20 - default 0
P392E Zone 52 option Group # 1-20 - default 0
P393E Zone 53 option Group # 1-20 - default 0
P394E Zone 54 option Group # 1-20 - default 0
P395E Zone 55 option Group # 1-20 - default 0
P396E Zone 56 option Group # 1-20 - default 0
P397E Zone 57 option Group # 1-20 - default 0
P398E Zone 58 option Group # 1-20 - default 0
P399E Zone 59 option Group # 1-20 - default 0
P400E Zone 60 option Group # 1-20 - default 0
P401E Zone 61 option Group # 1-20 - default 0
P402E Zone 62 option Group # 1-20 - default 0
P403E Zone 63 option Group # 1-20 - default 0
P404E Zone 64 option Group # 1-20 - default 0

Installer Code Program Address

P410E Installer Code - Default 000000 - must be more than 3 digits long Page 24

Programming Zone Group Options

Zone Group Options A

P411E Zone Group #1 Options A Default 1,6,7
P412E Zone Group #2 Options A Default 1,6,7
P413E Zone Group #3 Options A Default 1,6,7
P414E Zone Group #4 Options A Default 1,6,7
P415E Zone Group #5 Options A Default 1,6,7
P416E Zone Group #6 Options A Default 1,6,7
P417E Zone Group #7 Options A Default 1,6,7
P418E Zone Group #8 Options A Default 1,6,7
P419E Zone Group #9 Options A Default 1,6,7
P420E Zone Group #10 Options A Default 1,6,7
P421E Zone Group #11 Options A Default 1,6,7
P422E Zone Group #12 Options A Default 1,6,7
P423E Zone Group #13 Options A Default 1,6,7
P424E Zone Group #14 Options A Default 1,6,7
P425E Zone Group #15 Options A Default 1,6,7

Zone Options A

1 = Assigned to Area “A”
2 = Assigned to Area “B”
3 = Assigned to Area “C”
4 = Assigned to Area “D”
5 = Is a Stay Mode Zone
6 = Can be Manually Bypassed
7 = Can Auto-bypass
8 = Is a Chime Zone

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P426E Zone Group #16 Options A Default 1,6,7
P427E Zone Group #17 Options A Default 1,6,7
P428E Zone Group #18 Options A Default 1,6,7
P429E Zone Group #19 Options A Default 1,6,7
P430E Zone Group #20 Options A Default 1,6,7

Zone Group Options B

P431E Zone Group #1 Options B Default 0
P432E Zone Group #2 Options B Default 0
P433E Zone Group #3 Options B Default 0
P434E Zone Group #4 Options B Default 0
P435E Zone Group #5 Options B Default 0
P436E Zone Group #6 Options B Default 0
P437E Zone Group #7 Options B Default 0
P438E Zone Group #8 Options B Default 0
P439E Zone Group #9 Options B Default 0
P440E Zone Group #10 Options B Default 0
P441E Zone Group #11 Options B Default 0
P442E Zone Group #12 Options B Default 0
P443E Zone Group #13 Options B Default 0
P444E Zone Group #14 Options B Default 0
P445E Zone Group #15 Options B Default 0
P446E Zone Group #16 Options B Default 0
P447E Zone Group #17 Options B Default 0
P448E Zone Group #18 Options B Default 0
P449E Zone Group #19 Options B Default 0
P450E Zone Group #20 Options B Default 0

Zone Options B

1 = Is a 24 Hour Zone
2 = Is a 24 Hour Fire Zone
3 = Is a 24 Hour Auto-Reset Zone
4 = Is a Permanent Chime Zone
5 = Is a Handover Zone
6 = Is a two Trigger Zone
7 = Can Arm if zone not “Ready”
8 = Is a Siren Lockout Zone

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Zone Group Options C

P451E Zone Group #1 Options C Default 1
P452E Zone Group #2 Options C Default 1
P453E Zone Group #3 Options C Default 1
P454E Zone Group #4 Options C Default 1
P455E Zone Group #5 Options C Default 1
P456E Zone Group #6 Options C Default 1
P457E Zone Group #7 Options C Default 1
P458E Zone Group #8 Options C Default 1
P459E Zone Group #9 Options C Default 1
P460E Zone Group #10 Options C Default 1
P461E Zone Group #11 Options C Default 1
P462E Zone Group #12 Options C Default 1
P463E Zone Group #13 Options C Default 1
P464E Zone Group #14 Options C Default 1
P465E Zone Group #15 Options C Default 1
P466E Zone Group #16 Options C Default 1
P467E Zone Group #17 Options C Default 1
P468E Zone Group #18 Options C Default 1
P469E Zone Group #19 Options C Default 1
P470E Zone Group #20 Options C Default 1

Zone Options C

1 = Send Multiple reports via dialler
2 = Sensorwatch Zone (see also P742E & P930E)
3 = Zone is in Soak-test Mode
4 = Spare
5 = Spare
6 = Spare
7 = Spare
8 = Use second supervise timer # 2

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Zone Group Options D

P471E Zone Group #1 Options D Default 1,2
P472E Zone Group #2 Options D Default 1,2
P473E Zone Group #3 Options D Default 1,2
P474E Zone Group #4 Options D Default 1,2
P475E Zone Group #5 Options D Default 1,2
P476E Zone Group #6 Options D Default 1,2
P477E Zone Group #7 Options D Default 1,2
P478E Zone Group #8 Options D Default 1,2
P479E Zone Group #9 Options D Default 1,2
P480E Zone Group #10 Options D Default 1,2
P481E Zone Group #11 Options D Default 1,2
P482E Zone Group #12 Options D Default 1,2
P483E Zone Group #13 Options D Default 1,2
P484E Zone Group #14 Options D Default 1,2
P485E Zone Group #15 Options D Default 1,2

Zone Options D

1 = Zone is hardwired
2 = Zone uses EOL Resistor
3 = Zone has Tamper
4 = Zone is a Key-switch input
5 = Key-switch Arms the Area
6 = Key-switch is Momentary
7 = Zone uses NC contact
8 = Zone is a Vibration Sensor

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P486E Zone Group #16 Options D Default 1,2
P487E Zone Group #17 Options D Default 1,2
P488E Zone Group #18 Options D Default 1,2
P489E Zone Group #19 Options D Default 1,2
P490E Zone Group #20 Options D Default 1,2

Zone Group Radio sensor Mode

P491E Zone Group #1 Radio Mode - Default 5
P492E Zone Group #2 Radio Mode - Default 5
P493E Zone Group #3 Radio Mode - Default 5
P494E Zone Group #4 Radio Mode - Default 5
P495E Zone Group #5 Radio Mode - Default 5
P496E Zone Group #6 Radio Mode - Default 5
P497E Zone Group #7 Radio Mode - Default 5
P498E Zone Group #8 Radio Mode - Default 5
P499E Zone Group #9 Radio Mode - Default 5
P500E Zone Group #10 Radio Mode - Default 5
P501E Zone Group #11 Radio Mode - Default 5
P502E Zone Group #12 Radio Mode - Default 5
P503E Zone Group #13 Radio Mode - Default 5
P504E Zone Group #14 Radio Mode - Default 5
P505E Zone Group #15 Radio Mode - Default 5
P506E Zone Group #16 Radio Mode - Default 5
P507E Zone Group #17 Radio Mode - Default 5
P508E Zone Group #18 Radio Mode - Default 5
P509E Zone Group #19 Radio Mode - Default 5
P510E Zone Group #20 Radio Mode - Default 5

Zone Radio Mode

0 = Single Non-specific radio code
1 = Crow AE Battery Low
2 = Crow AE reed Switch
3 = Crow Merlin - Supervised signal ignored
4 = Crow Merlin - Supervised signal active
5 = Freelink Protocol with Checksum - Supervised
6 = Freelink Protocol with Checksum - Non-supervised
11 = Ness battery low
12 = Ness Reed Switch
31 = Visonic K980W PIR
32 = Powercode Supervised signal ignored
33 = Powercode Supervised signal active

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Zone Group Voice Message

P511E Zone Group #1 Voice Msg # - Default 1
P512E Zone Group #2 Voice Msg # - Default 1
P513E Zone Group #3 Voice Msg # - Default 1
P514E Zone Group #4 Voice Msg # - Default 1
P515E Zone Group #5 Voice Msg # - Default 1
P516E Zone Group #6 Voice Msg # - Default 1
P517E Zone Group #7 Voice Msg # - Default 1
P518E Zone Group #8 Voice Msg # - Default 1
P519E Zone Group #9 Voice Msg # - Default 1
P520E Zone Group #10 Voice Msg # - Default 1
P521E Zone Group #11 Voice Msg # - Default 1
P522E Zone Group #12 Voice Msg # - Default 1
P523E Zone Group #13 Voice Msg # - Default 1
P524E Zone Group #14 Voice Msg # - Default 1
P525E Zone Group #15 Voice Msg # - Default 1
P526E Zone Group #16 Voice Msg # - Default 1
P527E Zone Group #17 Voice Msg # - Default 1
P528E Zone Group #18 Voice Msg # - Default 1
P529E Zone Group #19 Voice Msg # - Default 1
P530E Zone Group #20 Voice Msg # - Default 1

Zone Voice Alarm

This is the voice message all zones assigned to this group will send when reporting in “Speech Dialler” Mode.

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Zone Group Entry Delay Time

P531E Zone Group #1 Entry Delay - Default 20
P532E Zone Group #2 Entry Delay - Default 0
P533E Zone Group #3 Entry Delay - Default 0
P534E Zone Group #4 Entry Delay - Default 0
P535E Zone Group #5 Entry Delay - Default 0
P536E Zone Group #6 Entry Delay - Default 0
P537E Zone Group #7 Entry Delay - Default 0
P538E Zone Group #8 Entry Delay - Default 0
P539E Zone Group #9 Entry Delay - Default 0
P540E Zone Group #10 Entry Delay - Default 0
P541E Zone Group #11 Entry Delay - Default 0
P542E Zone Group #12 Entry Delay - Default 0
P543E Zone Group #13 Entry Delay - Default 0
P544E Zone Group #14 Entry Delay - Default 0
P545E Zone Group #15 Entry Delay - Default 0

Zone Entry Delay Time

This is the entry delay time all zones assigned with this group number will use when armed. A zero here means the zone is instant. A value from 0-9999 seconds can be entered.

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P546E Zone Group #16 Entry Delay - Default 0
P547E Zone Group #17 Entry Delay - Default 0
P548E Zone Group #18 Entry Delay - Default 0
P549E Zone Group #19 Entry Delay - Default 0
P550E Zone Group #20 Entry Delay - Default 0

Zone Group Dialling Scenario

Zone Dialling Scenario Number Page 30

This is the scenario a zone assigned with this group number will use when reporting an alarm event

P551E Zone Group #1 Scenario # - Default 1
P552E Zone Group #2 Scenario # - Default 1
P553E Zone Group #3 Scenario # - Default 1
P554E Zone Group #4 Scenario # - Default 1
P555E Zone Group #5 Scenario # - Default 1
P556E Zone Group #6 Scenario # - Default 1
P557E Zone Group #7 Scenario # - Default 1
P558E Zone Group #8 Scenario # - Default 1
P559E Zone Group #9 Scenario # - Default 1
P560E Zone Group #10 Scenario # - Default 1
P561E Zone Group #11 Scenario # - Default 1
P562E Zone Group #12 Scenario # - Default 1
P563E Zone Group #13 Scenario # - Default 1
P564E Zone Group #14 Scenario # - Default 1
P565E Zone Group #15 Scenario # - Default 1
P566E Zone Group #16 Scenario # - Default 1
P567E Zone Group #17 Scenario # - Default 1
P568E Zone Group #18 Scenario # - Default 1
P569E Zone Group #19 Scenario # - Default 1
P570E Zone Group #20 Scenario # - Default 1

Zone Group Alarm Contact ID Reporting Code

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P571E Zone Group #1 Contact ID Alarm Code (Default = 130)
P572E Zone Group #2 Contact ID Alarm Code (Default = 130)
P573E Zone Group #3 Contact ID Alarm Code (Default = 130)
P574E Zone Group #4 Contact ID Alarm Code (Default = 130)
P575E Zone Group #5 Contact ID Alarm Code (Default = 130)
P576E Zone Group #6 Contact ID Alarm Code (Default = 130)
P577E Zone Group #7 Contact ID Alarm Code (Default = 130)
P578E Zone Group #8 Contact ID Alarm Code (Default = 130)
P579E Zone Group #9 Contact ID Alarm Code (Default = 130)
P580E Zone Group #10 Contact ID Alarm Code (Default = 130)
P581E Zone Group #11 Contact ID Alarm Code (Default = 130)
P582E Zone Group #12 Contact ID Alarm Code (Default = 130)
P583E Zone Group #13 Contact ID Alarm Code (Default = 130)
P584E Zone Group #14 Contact ID Alarm Code (Default = 130)
P585E Zone Group #15 Contact ID Alarm Code (Default = 130)
P586E Zone Group #16 Contact ID Alarm Code (Default = 130)
P587E Zone Group #17 Contact ID Alarm Code (Default = 130)
P588E Zone Group #18 Contact ID Alarm Code (Default = 130)
P589E Zone Group #19 Contact ID Alarm Code (Default = 130)
P590E Zone Group #20 Contact ID Alarm Code (Default = 130)

Zone Group Contact ID Tamper Reporting Code

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P591E Zone Group #1 Contact ID Tamper Code (Default = 137)
P592E Zone Group #2 Contact ID Tamper Code (Default = 137)
P593E Zone Group #3 Contact ID Tamper Code (Default = 137)
P594E Zone Group #4 Contact ID Tamper Code (Default = 137)
P595E Zone Group #5 Contact ID Tamper Code (Default = 137)
P596E Zone Group #6 Contact ID Tamper Code (Default = 137)
P597E Zone Group #7 Contact ID Tamper Code (Default = 137)
P598E Zone Group #8 Contact ID Tamper Code (Default = 137)
P599E Zone Group #9 Contact ID Tamper Code (Default = 137)
P600E Zone Group #10 Contact ID Tamper Code (Default = 137)
P601E Zone Group #11 Contact ID Tamper Code (Default = 137)
P602E Zone Group #12 Contact ID Tamper Code (Default = 137)
P603E Zone Group #13 Contact ID Tamper Code (Default = 137)
P604E Zone Group #14 Contact ID Tamper Code (Default = 137)
P605E Zone Group #15 Contact ID Tamper Code (Default = 137)

P606E Zone Group #16 Contact ID Tamper Code (Default = 137)
P607E Zone Group #17 Contact ID Tamper Code (Default = 137)
P608E Zone Group #18 Contact ID Tamper Code (Default = 137)
P609E Zone Group #19 Contact ID Tamper Code (Default = 137)
P610E Zone Group #20 Contact ID Tamper Code (Default = 137)

Zone Group Reporting Account

Report alarms to Account A-D Page 31

If a zone is in more than one Area, this address allows you to program which account code it will use when reporting alarms. (1 = Area A, 2 = Area B, 3 = Area C, 4 = Area D)

P611E Zone Group #1 Account # - Default 1
P612E Zone Group #2 Account # - Default 1
P613E Zone Group #3 Account # - Default 1
P614E Zone Group #4 Account # - Default 1
P615E Zone Group #5 Account # - Default 1
P616E Zone Group #6 Account # - Default 1
P617E Zone Group #7 Account # - Default 1
P618E Zone Group #8 Account # - Default 1
P619E Zone Group #9 Account # - Default 1
P620E Zone Group #10 Account # - Default 1
P621E Zone Group #11 Account # - Default 1
P622E Zone Group #12 Account # - Default 1
P623E Zone Group #13 Account # - Default 1
P624E Zone Group #14 Account # - Default 1
P625E Zone Group #15 Account # - Default 1
P626E Zone Group #16 Account # - Default 1
P627E Zone Group #17 Account # - Default 1
P628E Zone Group #18 Account # - Default 1
P629E Zone Group #19 Account # - Default 1
P630E Zone Group #20 Account # - Default 1

Zone Group Vibration Sensitivity

Zone Vibration Sensitivity Page 31

If the Zone is a Vibration Sensor the zone can have a sensitivity setting from 1-8. 1 = Highest to 8 = Lowest

P631E Zone Group #1 Vib Sensitivity- Default 1
P632E Zone Group #2 Vib Sensitivity- Default 1
P633E Zone Group #3 Vib Sensitivity- Default 1
P634E Zone Group #4 Vib Sensitivity- Default 1
P635E Zone Group #5 Vib Sensitivity- Default 1
P636E Zone Group #6 Vib Sensitivity- Default 1
P637E Zone Group #7 Vib Sensitivity- Default 1
P638E Zone Group #8 Vib Sensitivity- Default 1
P639E Zone Group #9 Vib Sensitivity- Default 1
P640E Zone Group #10 Vib Sensitivity- Default 1
P641E Zone Group #11 Vib Sensitivity- Default 1
P642E Zone Group #12 Vib Sensitivity- Default 1
P643E Zone Group #13 Vib Sensitivity- Default 1
P644E Zone Group #14 Vib Sensitivity- Default 1
P645E Zone Group #15 Vib Sensitivity- Default 1
P646E Zone Group #16 Vib Sensitivity- Default 1
P647E Zone Group #17 Vib Sensitivity- Default 1
P648E Zone Group #18 Vib Sensitivity- Default 1
P649E Zone Group #19 Vib Sensitivity- Default 1
P650E Zone Group #20 Vib Sensitivity- Default 1

Area "A" Primary Output Options

P651E-P658E OPTIONS
1 = Standard zone activation's
2 = Stay Mode activation's
3 = Radio key chirps
4 = All zones sealed (ready)
5 = 2 sec pulse on arm/disarm
6 = Chime zone activation's
7 = Spare
8 = Spare

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P651E Area "A" primary options for output #1 - Default 1
P652E Area "A" primary options for output #2 - Default 1 & 2
P653E Area "A" primary options for output #3 - Default 0
P654E Area "A" primary options for output #4 - Default 0
P655E Area "A" primary options for output #5 - Default 0
P656E Area "A" primary options for output #6 - Default 0
P657E Area "A" primary options for output #7 - Default 0
P658E Area "A" primary options for output #8 - Default 0

Area "A" Keypad Options

P659E Arm key can disarm during exit - Default 1-8 Page 34
P660E Stay key can disarm during Stay armed state. - Default l-8 Page 34

Area "A" Secondary Output Options

P661E-P668E OPTIONS

P661E Area "A" secondary options for output #1 - Default 0
P662E Area "A" secondary options for output #2 - Default 0
P663E Area "A" secondary options for output #3 - Default 0
P664E Area "A" secondary options for output #4 - Default 0
P665E Area "A" secondary options for output #5 - Default 0
P666E Area "A" secondary options for output #6 - Default 0
P667E Area "A" secondary options for output #7 - Default 0
P668E Area "A" secondary options for output #8 - Default 0

1 = Any bypass
2 = Auto bypass warning
3 = Entry beeps
4 = Exit beeps
5 = Follow Full Arming
6 = Follow Stay Arming
7 = Follow Disarm
8 = Spare

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Programming Area "A" Auto Arm/Disarm Time-zones

P669E Time Zones used for Area "A" auto arming /disarming- Default 0 (see P672E)

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Area "A" Miscellaneous Options 1

P670E Misc area options 1 - Default = 6

1 = Cannot Arm if not sealed
2 = "Arm" required before code
3 = "Stay" required before code
4 = Code required to arm
5 = Code required to "Bypass" zones
6 = Control/Chime disables chime zones
7 = Spare
8 = Cannot arm if Supervise fail active

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Area "A" Miscellaneous Options 2

P671E Misc area options 2 - Default 0

1 = Near & Verified Alarms
2 = Spare
3 = Spare
4 = Pendant chirps when Armed
5 = Pendant chirps when in Stay Mode
6 = 2 sec pulse at Arm
7 = 2 sec pulse at Disarm
8 = Cannot Arm if System Battery is Low

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Area "A" Time & Delay Options

P672E **AREA "A" TIME AND DELAY OPTIONS**-Default = 0

1 = Arm area When Time Zone Ends
2 = Disarm area When Time Zone Starts
3 = Disable Stay Mode Exit Delay
4 = Disable Arm Mode Exit Delay
5 = Disable Stay Mode Entry Delay
6 = Disable Arm Mode Entry Delay
7 = Use special Stay Mode entry timer
8 = Report Stay Mode alarms & Bypasses via dialler

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** Dialler Reporting Options for Area "A" **

P675E Area A reporting options -Default = 1

1 = Send arm/disarm
2 = Send Stay Mode arm/disarm
3 = Send disarm only after activation's
4 = Send Stay Mode disarm only after alarm
5 = Send arm when exit delay expires (LED On)
6 = Send all zone restores at disarm only
7 = Spare
8 = Spare

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**Area "A" Contact ID Account Code **

P676E Account number for Area "A" - default 0000

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**Area "A" Arm/Disarm Reporting Scenario **

P677E Area A Arm/Disarm reports mapped to scenario 1-4 default 1

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**Area "A" Latchkey Disarm Reporting Scenario **

P678E Area A Latchkey Disarm Reporting scenario 1-4 default 1

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Enrolling Radio Detectors -Zones 1-64

P680E 1-64E Enrol Radio Detector Zones 1-64 Page 39

If the zone Group assigned to a zone {P341-P404E} is set to a radio device type that incorporates a tamper switch, e.g. Type #5 "Crow supervised protocol" at addresses P491-P510E, the panel will only load on the tamper switch opening alarm transmission. If the radio device type for the assigned group is "0" the panel will load on any transmission. Also the assigned zone group must be set to radio (option 1 off at P471E-P490E) for the zone to be able to enter learn mode.

Programming Output Options

P681E-P688E OPTIONS

P681E Output #1 Primary options - Default none Page 41
P682E Output #2 Primary options - Default none
P683E Output #3 Primary options - Default none
P684E Output #4 Primary options - Default none
P685E Output #5 Primary options - Default none
P686E Output #6 Primary options - Default none
P687E Output #7 Primary options - Default none
P688E Output #8 Primary options - Default none

1 = Invert
2 = Flashing
3 = Single pulse
4 = One Shot (lock-out)
5 = DTMF command control
6 = Local command control
7 = Chime alarm to pulse timer
8 = Pulsed 24 Hour alarm

Enrolling Radio Keys

P690E 21-100E Enrol Radio Users 21-100 Page 39

(Radio Pendants can occupy User slots 21-100. If a Pendant is programmed against a User slot, that User slot is not available as a code User).

Alarms to Output Options

P691E Output #1 Alarm options - Default 1,2,3,6
P692E Output #2 Alarm options - Default 1,2,3,6
P693E Output #3 Alarm options - Default 0
P694E Output #4 Alarm options - Default 0
P695E Output #5 Alarm options - Default 0
P696E Output #6 Alarm options - Default 0
P697E Output #7 Alarm options - Default 0
P698E Output #8 Alarm options - Default 0

P691E-P698E OPTIONS Page 41
1 = Keypad panic to output
2 = Keypad fire to output
3 = Keypad medical to output
4 = Duress Alarm to output
5 = Keypad tamper to output
6 = Radio key panic to output
7 = 24 hour alarms
8 = 24 hour fire alarms

Erasing individual Radio codes by transmitting the code

P700E Erase a Transmitted radio code from All Memory Locations Page 39

When erase mode is started and the panel gets a code from the receiver, if that code exists in memory and its radio device type is "0" {see P680E}, the code will be erased from memory. If the code found in memory has a radio device type that incorporates a tamper switch, e.g. Type #5 "Crow supervised protocol" at addresses P491-P510E, then the panel will only erase on the tamper switch opening alarm transmission.

Secondary Alarms to Output Options

P701E Output #1 Secondary Alarm options 2 - Default 1,2
P702E Output #2 Secondary Alarm options 2 - Default 1,2
P703E Output #3 Secondary Alarm options 2 - Default 0
P704E Output #4 Secondary Alarm options 2 - Default 0
P705E Output #5 Secondary Alarm options 2 - Default 0
P706E Output #6 Secondary Alarm options 2 - Default 0
P707E Output #7 Secondary Alarm options 2 - Default 0
P708E Output #8 Secondary Alarm options 2 - Default 0

P701E-P708E OPTIONS Page 42
1 = Zone tampers to output
2 = Cabinet tamper to output
3 = Mains fail to output
4 = Battery low to output
5 = Phone Line failure
6 = Failure to get kiss-off
7 = Automatic pulse every 5 sec.
8 = 24 Hour alarm reset pulse

ITA Received Signal Strength (RSSI) for Radio Zones 1-64

P709E 1-64E ITA RSSI for Radio Zones 1-64 (Raised lower received level in this mode) Page 41

Received Signal Strength (RSSI) for Radio Zones 1-64

P710E 1-64E RSSI for Radio Zones 1-64 Page 40

Received Signal Strength (RSSI) for Radio Pendants 21-100

P720E 21-100E RSSI for Radio Pendants 21-100 Page 40

Programming Output On/Off Time Zone

P721E Output #1 Automatic on / off time zones - Default 0 (never) Page 43
P722E Output #2 Automatic on / off time zones - Default 0 (never)
P723E Output #3 Automatic on / off time zones - Default 0 (never)
P724E Output #4 Automatic on / off time zones - Default 0 (never)
P725E Output #5 Automatic on / off time zones - Default 0 (never)
P726E Output #6 Automatic on / off time zones - Default 0 (never)
P727E Output #7 Automatic on / off time zones - Default 0 (never)
P728E Output #8 Automatic on / off time zones - Default 0 (never)

Programming Output Enable Time Zones

P731E Output #1 Enable time zones - Default 0 (always) Page 43
P732E Output #2 Enable time zones - Default 0 (always)
P733E Output #3 Enable time zones - Default 0 (always)
P734E Output #4 Enable time zones - Default 0 (always)
P735E Output #5 Enable time zones - Default 0 (always)
P736E Output #6 Enable time zones - Default 0 (always)
P737E Output #7 Enable time zones - Default 0 (always)
P738E Output #8 Enable time zones - Default 0 (always)

Find Stored Radio Code Location

P740E Find Stored Radio Code Location Page 40

Miscellaneous System Options 1

P741E Misc Options 1 - Default 3,5 Page 44

1 = Ignore Mains fail
2 = Ignore Zone Tampers during exit delay
3 = Installer code direct access
4 = Installer lockout
5 = System Tamper EOL (Off = Short circuit Tamper)
6 = Ignore expander Tamper Alarm
7 = Ignore Expander AC Fail
8 = Ignore Expander Comms fail

Miscellaneous System Options 2

P742E Misc Options 2 -Default = 0 Page 44

1 = Sensorwatch Timer in Minutes
2 = KP Alarm Buzzer linked to OP1 Reset Time
3 = Memory Access Requires Code
4 = Send Output data to keypad buss (Off = No O/P data on buss)
5 = Output 1 is a siren output (8 ohm horn speaker)
6 = Inhibit Arming if “Radio Activity Failure” alarm active
7 = Test for RF Interference
8 = Installer Must Reset a System Tamper Alarm

Miscellaneous System Options 3

P743E Misc Options 3 -Default = None 1 = Enable Call-Back Only Mode Page 56

Programming Duress Digit

P744E Duress Digit (Value can be 1-9, 0 = disabled) default 0 Page 24

Programming Expander Fail Timeout

P745E PW32X Fail Timeout (16-999 seconds) default = 16 secs Page 45

** Upload/Download Security Code **

P746E XXXXXXXX. Up to 8 digit security code -Default = 0 Page 61

Keypad Listen-in Options

P747E Keypad Listen-in Options **P747E Options** (Default = 1-7 On) Page 60

1 = Enabled During Dialling in Disarm State only
2 = Enabled During Dialling in Armed State only
3 = Enabled During Dialling in Stay Mode State only
4 = Enabled Throughout the call in Disarm State only
5 = Enabled Throughout the call in Armed State only
6 = Enabled Throughout the call in Stay Mode State only
7 = Listen-in Enabled when the panel answers a call
8 = Delay hang-up on Voice Alarm kiss-off & turn on O/P 4

Listen-in to Output 1 Options

P748E Listen-in via internal speaker

P748E Options (Default = Off) Page 60

1 = Enabled During Dialling in Disarm State only
2 = Enabled During Dialling in Armed State only
3 = Enabled During Dialling in Stay Mode State only
4 = Enabled Throughout the call in Disarm State only
5 = Enabled Throughout the call in Armed State only
6 = Enabled Throughout the call in Stay Mode State only
7 = Listen-in Enabled when the panel answers a call
8 = Hold Line Open After Voice/Domestic Kiss-off

Viewing the Number of Expander Boards Connected

P749E 1 = Expander 1 connected Page 45
2 = Expander 2 connected

Normal Zone Response Time

P750E Normal Zone Response Time (0-31) default = 6 Page 32

Area "B" Primary Output Options

P751E-P758E OPTIONS

P751E Area "B" primary options for output #1 - Default 1
P752E Area "B" primary options for output #2 - Default 1 & 2
P753E Area "B" primary options for output #3 - Default 0
P754E Area "B" primary options for output #4 - Default 0
P755E Area "B" primary options for output #5 - Default 0
P756E Area "B" primary options for output #6 - Default 0
P757E Area "B" primary options for output #7 - Default 0
P758E Area "B" primary options for output #8 - Default 0

1 = Standard zone activation's
2 = Stay Mode activation's
3 = Radio key chirps
4 = All zones sealed (Ready)
5 = 2 sec pulse arm/disarm
6 = Chime zone activation's
7 = Spare
8 = Spare

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Area "B" Keypad Options

P759E Arm key can disarm during exit - Default 1-8 Page 34
P760E Stay key can disarm during Stay armed state - Default 1-8 Page 34

Area "B" Secondary Output Options

P761E-P768E OPTIONS

P761E Area "B" secondary options for output #1 - Default 0
P762E Area "B" secondary options for output #2 - Default 0
P763E Area "B" secondary options for output #3 - Default 0
P764E Area "B" secondary options for output #4 - Default 0
P765E Area "B" secondary options for output #5 - Default 0
P766E Area "B" secondary options for output #6 - Default 0
P767E Area "B" secondary options for output #7 - Default 0
P768E Area "B" secondary options for output #8 - Default 0

1 = Any bypass
2 = Auto bypass warning
3 = Entry beeps
4 = Exit beeps
5 = Follow Full Arming
6 = Follow Stay Arming
7 = Follow Disarm
8 = Spare

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Programming Area "B" Auto Arm/Disarm Time-zones

P769E Time Zones used for Area "B" auto arming /disarming- Default 0 (see P772E) Page 34

Area "B" Miscellaneous Options 1

P770E Misc area options 1 - Default 6

1 = Cannot Arm if not sealed Page 35
2 = "Arm" required before code
3 = "Stay" required before code
4 = Code required to arm
5 = Code required to "Bypass" zones
6 = Control/Chime disables chime zones
7 = Spare
8 = Cannot arm if Supervise fail active

Area "B" Miscellaneous Options 2

P771E Misc area options 2 - Default 0

1 = Near & Verified Alarms Page 36
2 = Spare
3 = Spare
4 = Pendant chirps when armed
5 = Pendant chirps when in Stay Mode
6 = 2 sec pulse at arm
7 = 2 sec pulse at disarm
8 = Cannot Arm if System Battery is Low

Area “B” Time & Delay Options

P772E **AREA "B" TIME AND DELAY OPTIONS** -Default = 0 Page 36

1 = Arm area When Time Zone Ends
2 = Disarm area When Time Zone Starts
3 = Disable Stay Mode Exit Delay
4 = Disable Arm Mode Exit Delay
5 = Disable Stay Mode Entry Delay
6 = Disable Arm Mode Entry Delay
7 = Use special Stay Mode entry timer
8 = Report Stay Mode alarms & Bypasses via dialler

** Dialler Reporting Options for Area “B” **

P775E Area B reporting options -Default = 1 Page 37

1 = Send arm/disarm
2 = Send Stay Mode arm/disarm
3 = Send disarm only after activation's
4 = Send Stay Mode disarm only after alarm
5 = Send arm when exit delay expires (LED On)
6 = Send all zone restores at disarm only
7 = Spare
8 = Spare

** Area “B” Contact ID Account Code **

P776E Account number for Area "B" - default 0000 Page 38

**Area “B” Arm/Disarm Reporting Scenario **

P777E Area B Arm/Disarm reports mapped to scenario 1-4 default 1 Page 38

**Area “B” Latchkey Disarm Reporting Scenario **

P778E Area B Latchkey Disarm Reporting scenario 1-4 default 1 Page 38

Programming Keypad Options

P780E Keypads assigned to Area "A" - Default 1-8 Page 46
P781E Keypads assigned to Area "B" - Default none Page 46
P782E Keypads assigned to Area "C" - Default none Page 46
P783E Keypads assigned to Area "D" - Default none Page 46
P784E Keypads with permission to Arm - Default 1-8 Page 46
P785E Keypads with permission to arm Stay Mode - Default 1-8 Page 46
P786E Keypads with permission to use control function - Default 1-8 Page 46
P787E Keypads with permission to bypass zones - Default 1-8 Page 46
P788E Keypads (LED) with Panic Button enabled - Default none Page 46
P789E Keypads (LED) with Delayed Panic Button enabled - Default 1-8 Page 46
P790E Keypads with dual button Panic Alarm enabled - Default 1-8 Page 46
P791E Keypads with dual button Fire Alarm enabled - Default 1-8 Page 46
P792E Keypads with dual button Medical Alarm enabled - Default 1-8 Page 46
P793E Keypads with buzzer mapped for alarm tone for armed zone alarms - Default 1-8 (see P742E) Page 46
P794E Keypads with buzzer mapped for alarm tone for stay mode zone alarms - Default 1-8 Page 46
P795E Keypads with buzzer mapped for alarm tone for 24 hour zone alarms - Default 1-8 Page 46
P796E Keypads with buzzer mapped for alarm tone for chime mode zones - Default 1-8 Page 46
P797E Keypads with buzzer mapped to indicate Arm Mode exit delay beeps - Default 1-8 Page 46
P798E Keypads with buzzer mapped to indicate Stay Mode exit delay beeps - Default 1-8 Page 47
P799E Keypads with buzzer mapped to indicate entry delay beeps - Default 1-8 Page 47
P800E Keypads with buzzer mapped for supervised radio timeout, or Sensorwatch alarm - Default none Page 47
P801E Keypads with buzzer mapped to keypad tamper - Default 1-8 Page 47
P802E Keypads with buzzer mapped to zone tamper - Default 1-8 Page 47
P803E Keypads with buzzer mapped to cabinet tamper - Default 1-8 Page 47
P804E Keypads with buzzer mapped to indicate RF signal blocked - Default none Page 47
P805E Keypads with buzzer mapped to Radio Pendant “Panic” Alarm - Default 1-8 Page 47
P806E Keypads with buzzer mapped to “Panic” Alarm - Default 1-8 Page 47
P807E Keypads with buzzer mapped to “Fire” Alarm - Default 1-8 Page 47
P808E Keypads with buzzer mapped to “Medical” Alarm - Default 1-8 Page 47
P809E Keypads with buzzer mapped to line failure - Default none Page 47
P810E Keypads with facility to turn off LED's after exit delay - Default none Page 47
P811E Keypads that will turn off all LED's and backlighting during power failure- Default none Page 47
P812E Keypad “A” Button Arm Functions -Default = 1 **P812 & P813 SPECIAL FUNCTION OPTIONS** Page 47
P813E Keypad “B” Button Arm Functions -Default = 2

1 = Arms Area **A** **5 =** “Latchkey” Arming
2 = Arms Area **B** **6 =** Spare
3 = Arms Area **C** **7 =** Spare
4 = Arms Area **D** **8 =** Spare

** Test Calls **

P816E Test calls for days of the week 1-7 Default = 1-7 Page 58
P817E Test call time of the day default = 2300

Setting the Real Time Clock

P818E Set day of the week (1 -7 where 1 = Sunday) Page 50
P819E Set time (HHMM)
P820E Set day of the month (1 - 31)
P821E Set month (1 - 12)
P822E Set year

Programming Daylight saving Adjustments

P823E Daylight saving start Sunday - Default 1 Page 50
P824E Daylight saving start month - Default 10
P825E Daylight saving start hour - Default 2

P826E Daylight saving end Sunday - Default 3 Page 50
P827E Daylight saving end month - Default 3
P828E Daylight saving end hour - Default 3

Dynamic Data

P829E Misc system flags 1-7 = Spare Page 50
8=Daylight saving active

** Telephone Number Pre-fix **

P830E Telephone Number Pre-fix -Default = 0 Page 55

** Programming Telephone Numbers **

P831E Telephone Number 1 -Default = 0 Page 55
P832E Telephone Number 2 -Default = 0
P833E Telephone Number 3 -Default = 0
P834E Telephone Number 4 -Default = 0
P835E Telephone Number 5 -Default = 0
P836E Telephone Number 6 -Default = 0

Telephone Number Reporting Format

P837E Reporting Format, Ph 1 (Default= 1) **P837E-P842E Options** Page 56
P838E Reporting Format, Ph 2 (Default= 1) 1 = Contact ID
P839E Reporting Format, Ph 3 (Default= 1) 2 = Domestic Dial
P840E Reporting Format, Ph 4 (Default= 1) 4 = Speech Dialler
P841E Reporting Format, Ph 5 (Default= 1) 13 = 4+2 DTMF
P842E Reporting Format, Ph 6 (Default= 1) 14 = Call-Back Number

Telephone Number Reporting Options

P843E Options for Telephone # 1 **P843E-P848E Options** (Default =1,4,5) Page 57
P844E Options for Telephone # 2 1 = Monitor Call Progress
P845E Options for Telephone # 3 2 = Blind Dial
P846E Options for Telephone # 4 3 = Use Group Numbers for Contact ID
P847E Options for Telephone # 5 4 = Send Restores
P848E Options for Telephone # 6 5 = Send Test Calls
6 = Add Ph Pre-fix to telephone number
7 = Dial using Long DTMF Tones
8 = Ignore Kiss off in Domestic Mode

Area “C” Primary Output Options

P851E-P858E OPTIONS

P851E Area “C” primary options for output #1- Default 1 1 = Standard zone activation's Page 33
P852E Area “C” primary options for output #2 - Default 1 & 2 2 = Stay Mode activation's
P853E Area "C" primary options for output #3 - Default 0 3 = Radio key chirps
P854E Area "C" primary options for output #4 - Default 0 4 = All zones sealed (ready)
P855E Area "C" primary options for output #5 - Default 0 5 = 2 sec pulse on arm/disarm
P856E Area "C" primary options for output #6 - Default 0 6 = Chime zone activation's
P857E Area "C" primary options for output #7 - Default 0 7 = Spare
P858E Area "C" primary options for output #8 - Default 0 8 = Spare

Area "C" Keypad Options

P859E Arm key can disarm during exit - Default 1-8 Page 34

P860E Stay key can disarm during Stay armed state - Default 1-8 Page 34

Area "C" Secondary Output Options

P861E-P868E OPTIONS

P861E Area "C" secondary options for output #1 - Default 0 Page 33
P862E Area "C" secondary options for output #2 - Default 0
P863E Area "C" secondary options for output #3 - Default 0
P864E Area "C" secondary options for output #4 - Default 0
P865E Area "C" secondary options for output #5 - Default 0
P866E Area "C" secondary options for output #6 - Default 0
P867E Area "C" secondary options for output #7 - Default 0
P868E Area "C" secondary options for output #8 - Default 0

1 = Any bypass
2 = Auto bypass warning
3 = Entry beeps
4 = Exit Beeps
5 = Follow Full Arming
6 = Follow Stay Arming
7 = Follow Disarm
8 = Spare

Programming Area "C" Auto Arm/Disarm Time-zones

P869E Time Zones used for Area "C" auto arming/disarming- Default 0 (see P872E) Page 34

Area "C" Miscellaneous Options 1

P870E Misc area options 1 - Default 6 Page 35

1 = Cannot Arm if not sealed
2 = "Arm" required before code
3 = "Stay" required before code
4 = Code required to arm
5 = Code required to "Bypass" zones
6 = Control/Chime disables chime zones
7 = Spare
8 = Cannot arm if Supervise fail active

Area "C" Miscellaneous Options 2

P871E Misc area options 2 - Default 0 Page 36

1 = Near & Verified Alarms
2 = Spare
3 = Spare
4 = Pendant chirps when armed
5 = Pendant chirps when in Stay Mode
6 = 2 sec pulse at arm
7 = 2 sec pulse at disarm
8 = Cannot Arm if System Battery is Low

Area "C" Time & Delay Options

P872E **AREA "C" TIME AND DELAY OPTIONS** - Default 0 Page 36

1 = Arm area When Time Zone Ends
2 = Disarm area When Time Zone Starts
3 = Disable Stay Mode Exit Delay
4 = Disable Arm Mode Exit Delay
5 = Disable Stay Mode Entry Delay
6 = Disable Arm Mode Entry Delay
7 = Use special Stay Mode entry timer
8 = Report Stay Mode alarms & Bypasses via dialler

** Dialler Reporting Options for Area "C" **

P875E Area C reporting options -Default = 1 Page 37

1 = Send arm/disarm
2 = Send Stay Mode arm/disarm
3 = Send disarm only after activation's
4 = Send Stay Mode disarm only after alarm
5 = Send arm when exit delay expires (LED On)
6 = Send all zone restores at disarm only
7 = Spare
8 = Spare

** Area "C" Contact ID Account Code **

P876E Account number for Area "C" - default 0000 Page 38

**Area "C" Arm/Disarm Reporting Scenario **

P877E Area C Arm/Disarm reports mapped to scenario 1-4 default 1 Page 38

**Area "C" Latchkey Disarm Reporting Scenario **

P878E Area C Latchkey Disarm Reporting scenario 1-4 default 1 Page 38

** Command Control Options **

P881E Command code for Area “A” control — Page 63
P882E Command code for Area "B" control — Page 63
P883E Command code for Area "C" control — Page 63
P884E Command code for Area "D" control — Page 63
P885E Command code for output control — Page 63
P886E Command code to turn “MICROPHONE” On — Page 63

Keypad Panic Alarm Contact ID Reporting Code

P887E Keypad Panic Alarm (& button 1 & 3) Contact ID Code (Default=120) — Page 59

Keypad Fire Alarm Contact ID Reporting Code

P888E Keypad Fire Alarm (button 4 & 6) Contact ID Code (Default=110) — Page 59

Keypad Medical Alarm Contact ID Reporting Code

P889E Keypad Medical Alarm (button 7 & 9) Contact ID Code (Default=100) — Page 59

** Dialler Options **

P890E Dialler options (Default = 2,7) — Page 54

1 = Enable dialler
2 = Fax defeat
3 = Disable line monitoring
4 =Pulse Dial (Off = DTMF)
5 = Reverse Style Pulse
6 = Report 24hr alarms in Voice/Domestic
7 = Auto-Detect Modem Format
8 = Force V21

** Reporting Scenarios **

P892E Reporting Scenario #1 options (Default = 1,7) — Page 54
P893E Reporting Scenario #2 options (Default = 0)
P894E Reporting Scenario #3 options (Default = 0)
P895E Reporting Scenario #4 options (Default = 0)

** Maximum Dialling Attempts per Scenario **

P896E Max Dial Attempts for Scenario Number 1-Value 1-99 (Default=20) — Page 55
P897E Max Dial Attempts for Scenario Number 2-Value 1-99 (Default=20)
P898E Max Dial Attempts for Scenario Number 3-Value 1-99 (Default=20)
P899E Max Dial Attempts for Scenario Number 4-Value 1-99 (Default=20)

** Auto Answer Ring Count **

P900E Auto-answer ring count - default = 25 — Page 61

Output Reset Times

P901E Output #1 reset time - Default 600 sec — Page 48
P902E Output #2 reset time - Default 600 sec
P903E Output #3 reset time - Default 600 sec
P904E Output #4 reset time - Default 600 sec
P905E Output #5 reset time - Default 0 sec
P906E Output #6 reset time - Default 0 sec
P907E Output #7 reset time - Default 0 sec
P908E Output #8 reset time - Default 0 sec

Reset time values
0 = latching
1-999 = 1 to 999 seconds

** Mains Failure Reporting Delay **

P909E Mains Fail Reporting Delay to Dialler (0-999 sec) - Default = 600 — Page 48

** Zone Alarm Reporting Delay **

P910E Zone Reporting Delay to Dialler (0-999 sec) - Default = 0 — Page 48

Output On Delay Times

P911E Output #1 delay on timer - Default 0 — Page 48
P912E Output #2 delay on timer - Default 0
P913E Output #3 delay on timer - Default 0
P914E Output #4 delay on timer - Default 0
P915E Output #4 delay on timer - Default 0
P916E Output #5 delay on timer - Default 0
P917E Output #6 delay on timer - Default 0
P918E Output #7 delay on timer - Default 0

Delay time values
0 = no delay
1 - 999 = 1 to 999 seconds

Supervised Radio Timer # 1

P919E Supervised Radio Timer # 1 (0-255 minutes) - Default = 240 Minutes — Page 48

Supervised Radio Timer # 2

P920E Supervised Radio Timer # 2 (0-255 minutes) - Default = 240 Minutes Page 48

Output Pulse Times

P921E Output #1 pulse time - Default 2
P922E Output #2 pulse time - Default 2
P923E Output #3 pulse time - Default 2
P924E Output #4 pulse time - Default 2
P925E Output #5 pulse time - Default 2
P926E Output #6 pulse time - Default 2
P927E Output #7 pulse time - Default 2
P928E Output #8 pulse time - Default 2

Pulse time values
1-999 (min of 2)
2 to 999 in 1/10 secs
e.g. 2 = 0.2 second
10 = 1 second

Page 49

Radio Signal Failure Time

P929E Radio Signal Failure Timer (0-255 minutes) - Default = 0 Minutes Page 49

Sensorwatch Time

P930E Sensorwatch Alarm Timer (0-255 hour) - Default = 120 Hours Page 49

** System Events to Scenario Mapping **

P931E Duress Alarm mapped to scenario 1-4 default 1 Page 57
P932E Keypad “Panic” (& buttons 1 & 3) mapped to scenario 1-4 default 1
P933E Keypad “Fire” (buttons 4 & 6) mapped to scenario 1-4 default 1
P934E Keypad “Medical” (buttons 7 & 9) mapped to scenario 1-4 default 1
P935E Battery low mapped to scenario 1-4 default 1
P936E Mains fail mapped to scenario 1-4 default 1
P937E Phone line restore mapped to scenario 1-4 default 1
P938E Radio PIR battery low mapped to scenario 1-4 default 1
P939E Radio-key battery low mapped to scenario 1-4 default 1
P940E Keypad tamper mapped to scenario 1-4 default 1
P941E Cabinet tamper mapped to scenario 1-4 default 1
P942E Zone tamper mapped to scenario 1-4 default 1
P943E **“**RF Interference” mapped to scenario 1-4 default 1
P944E Radio panic mapped to scenario 1-4 default 1
P945E Supervised Radio Timeout mapped to scenario 1-4 default 1
P946E Sensorwatch Timeout mapped to scenario 1-4 default 1
P947E Test calls mapped to scenario 1-4 default 1
P948E Expander Fail to mapped scenario 1-4 default 1
P949E Expander Tamper mapped to scenario 1-4 default 1
P950E Call-Back mapped to scenario 1-4 default 1

Area “D” Primary Output Options

P951E-P958E OPTIONS

P951E Area “D” primary options for output #1- Default 1
P952E Area “D” primary options for output #2 - Default 1 & 2
P953E Area "D" primary options for output #3 - Default 0
P954E Area "D" primary options for output #4 - Default 0
P955E Area "D" primary options for output #5 - Default 0
P956E Area "D" primary options for output #6 - Default 0
P957E Area "D" primary options for output #7 - Default 0
P958E Area "D" primary options for output #8 - Default 0

1 = Standard zone activation's
2 = Stay Mode activation's
3 = Radio key chirps
4 = All zones sealed (ready)
5 = 2 sec pulse on arm/disarm
6 = Chime zone activation's
7 = Spare
8 = Spare

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Area “D” Keypad Options

P959E Arm key can disarm during exit - Default 1-8 Page 34
P960E Stay key can disarm during Stay armed state - Default 1-8 Page 34

Area “D” Secondary Output Options

P961E-P968E OPTIONS

P961E Area "D" secondary options for output #1 - Default 0
P962E Area "D" secondary options for output #2 - Default 0
P963E Area "D" secondary options for output #3 - Default 0
P964E Area "D" secondary options for output #4 - Default 0
P965E Area "D" secondary options for output #5 - Default 0
P966E Area "D" secondary options for output #6 - Default 0
P967E Area "D" secondary options for output #7 - Default 0
P968E Area "D" secondary options for output #8 - Default 0

1 = Any bypass
2 = Auto bypass warning
3 = Entry beeps
4 = Exit Beeps
5 = Follow Full Arming
6 = Follow Stay Arming
7 = Follow Disarm
8 = Spare

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Programming Area “D” Auto Arm/Disarm Time-zones

P969E Time Zones used for Area "D" auto arming /disarming- Default 0 (see P972E) Page 34

Area “D” Miscellaneous Options 1

P970E Misc area options 1 - Default 6 Page 35

1 = Cannot Arm if not sealed
2 = “Arm” required before code
3 = “Stay” required before code
4 = Code required to arm
5 = Code required to “Bypass” zones
6 = Control/Chime disables chime zones
7 = Spare
8 = Cannot arm if Supervise fail active

Area “D” Miscellaneous Options 2

P971E Misc area options 2 - Default 0 Page 36

1 = Near & Verified Alarms
2 = Spare
3 = Spare
4 = Pendant chirps when armed
5 = Pendant chirps when in Stay Mode
6 = 2 sec pulse at arm
7 = 2 sec pulse at disarm
8 = Cannot Arm if System Battery is Low

Area “D” Time & Delay Options

P972E **AREA "D" TIME AND DELAY OPTIONS -**Default 0 Page 36

1 = Arm area When Time Zone Ends
2 = Disarm area When Time Zone Starts
3 = Disable Stay Mode Exit Delay
4 = Disable Arm Mode Exit Delay
5 = Disable Stay Mode Entry Delay
6 = Disable Arm Mode Entry Delay
7 = Use special Stay Mode entry timer
8 = Report Stay Mode alarms & Bypasses via dialler

** Dialler Reporting Options for Area “D” **

P975E Area D reporting options -Default = 1 Page 37

1 = Send arm/disarm
2 = Send Stay Mode arm/disarm
3 = Send disarm only after activation's
4 = Send Stay Mode disarm only after alarm
5 = Send arm when exit delay expires (LED On)
6 = Send all zone restores at disarm only
7 = Spare
8 = Spare

** Area “D” Contact ID Account Code **

P976E Account number for Area "D" - default 0000 Page 38

**Area “D” Arm/Disarm Reporting Scenario **

P977E Area D Arm/Disarm reports mapped to scenario 1-4 default 1 Page 38

**Area “D” Latchkey Disarm Reporting Scenario **

P978E Area D Latchkey Disarm Reporting scenario 1-4 default 1 Page 38

Delays and Timers

P981E Area "A" exit delay - Default = 60 sec (0-999 sec) Page 49
P982E Area "B" exit delay - Default = 60 sec
P983E Area "C" exit delay - Default = 60 sec
P984E Area "D" exit delay - Default = 60 sec
P985E Area "A" Special Stay Mode entry delay - Default 20 sec (0-9999 sec) Page 49
P986E Area "B" Special Stay Mode entry delay - Default 20 sec
P987E Area "C" Special Stay Mode entry delay - Default 20 sec
P988E Area "D" Special Stay Mode entry delay - Default 20 sec

P989E Two trigger time period - Default 60 sec (0-999 sec) Page 49

Chime alarm to keypad and output timing

P991E Area "A" chime alarm keypad buzzer duration - Default 20 (0-999 in 1/10th sec steps) Page 50
P992E Area "B" chime alarm keypad buzzer duration - Default 20 (Default 20 = 2 seconds)
P993E Area "C" chime alarm keypad buzzer duration - Default 20
P994E Area "D" chime alarm keypad buzzer duration - Default 20

P995E Area "A" chime alarm to Output duration - Default 20 (0-999 in 1/10th sec steps) Page 50
P996E Area "B" chime alarm to Output duration - Default 20 (Default 20 = 2 seconds)
P997E Area "C" chime alarm to Output duration - Default 20
P998E Area "D" chime alarm to Output duration - Default 20

**Arm/Disarm Command Control Start Message Addressing **

P1001E Area “A” Arm Start Message number for Remote Command Control - Default 0 Page 63
P1002E Area “B” Arm Start Message number for Remote Command Control - Default 0
P1003E Area “C” Arm Start Message number for Remote Command Control - Default 0
P1004E Area “D” Arm Start Message number for Remote Command Control - Default 0

*Pendant Panic Alarm Voice Message Mapping **

P1021E Voice message number mapped to pendant panic alarm - default 1 Page 60

*Keypad Panic Alarm Voice Message Mapping **

P1022E Voice message number mapped to panic alarm - default 1 Page 60

**Keypad Fire Alarm Voice Message Mapping **

P1023E Voice message number mapped to Fire (4&6) alarm - default 1 Page 60

**Keypad Medical Alarm Voice Message Mapping **

P1024E Voice message number mapped to Medical (7&9) alarm - default 1 Page 60

**Mains & Battery Voice Message Mapping **

P1025E Voice message number mapped to Battery Low - default 0 Page 60
P1026E Voice message number mapped to Mains Failure - default 0 Page 60

**Radio Battery Low Alarm Voice Message Mapping **

P1027E Voice message number mapped to Radio Battery Low alarm - default 0 Page 60

**Radio Supervise Failure Voice Message Mapping **

P1028E Voice message number mapped to Radio Supervise Failure alarm - default 0 Page 60

**Tamper Alarm Voice Message Mapping **

P1029E Voice message number mapped to Tamper alarm - default 0 Page 60

**Output Command Control On Message Addressing **

P1031E Output #1 ON message for Remote Command Control - Default 0 Page 63
P1032E Output #2 ON message for Remote Command Control - Default 0
P1033E Output #3 ON message for Remote Command Control - Default 0
P1034E Output #4 ON message for Remote Command Control - Default 0
P1035E Output #5 ON message for Remote Command Control - Default 0
P1036E Output #6 ON message for Remote Command Control - Default 0
P1037E Output #7 ON message for Remote Command Control - Default 0
P1038E Output #8 ON message for Remote Command Control - Default 0

Defining Time Zones

P1061E Time Zone 1 day of the week Default 0
P1062E Time Zone 1 start time - Default 0
P1063E Time Zone 1 finish time - Default 0
P1064E Time Zone 2 day of the week - Default 0
P1065E Time Zone 2 start time - Default 0
P1066E Time Zone 2 finish time - Default 0
P1067E Time Zone 3 day of the week - Default 0
P1068E Time Zone 3 start time - Default 0
P1069E Time Zone 3 finish time - Default 0
P1070E Time Zone 4 day of the week - Default 0
P1071E Time Zone 4 start time - Default 0
P1072E Time Zone 4 finish time - Default 0
P1073E Time Zone 5 day of the week - Default 0
P1074E Time Zone 5 start time - Default 0
P1075E Time Zone 5 finish time - Default 0
P1076E Time Zone 6 day of the week - Default 0
P1077E Time Zone 6 start time - Default 0
P1078E Time Zone 6 finish time - Default 0
P1079E Time Zone 7 day of the week - Default 0
P1080E Time Zone 7 start time - Default 0
P1081E Time Zone 7 finish time - Default 0

TIME ZONE PROGRAMMING Page 51
DAYS 1 - 7
1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday
8 = Invert time zone
Times = 0000-2359

P1082E Time Zone 8 day of the week - Default 0
P1083E Time Zone 8 start time - Default 0
P1084E Time Zone 8 finish time - Default 0

Keypad Dynamic Data

P1090E Display keyboard address Page 52
P1091E Display partitions assigned to this keypad (1=A, 2=B, 3=C, 4=D) Page 52
P1092E Display software version Page 52

Active Time Zones

P1093E Active Time-Zones Page 52

Printing Events

P1094E Start event printing Page 52

** Manually Answering an In-coming Call **

P1095E Answer incoming call (user initiated) Page 52

Walk Test Mode

P1096E Start walk-test mode ON/OFF Page 52

Temporary Output Disable Mode

P1097E Temporary Output Disable mode - Outputs 1-8 Page 52

EE² Upload/Download

P1098E Write to EE² board on serial port. Page 53
P1099E Copy from EE² board on serial port to panel. Page 53

Reset to Defaults **(Enter address twice, eg P1105E - 1105E)**

P1100E Reset user codes Page 53
P1101E Reset dialler parameters
P1102E Reset radio parameters
P1103E Reset voice Parameters
P1104E Reset all other Parameters
P1105E Reset everything back to factory Default

Clear Output Parameters

P1106E Clear all output parameters (outputs 1 - 8) Page 53

Clear Memory Events

P1107E Clear the 255 event Memory Buffer Page 53

Start Callback

P1108E Start Callback Page 53

Reset Panel

P1109E Reset Panel Page 53

Automatic Test 4+2 Reporting Code

P1110E 4+2 Automatic Test Code (Default=84) Page 62

Zone Alarm 4+2 Reporting Code

P1111E 4+2 Alarm Code for Zone 1 (Default=01) Page 62
P1112E 4+2 Alarm Code for Zone 2 (Default=02)
P1113E 4+2 Alarm Code for Zone 3 (Default=03)
P1114E 4+2 Alarm Code for Zone 4 (Default=04)
P1115E 4+2 Alarm Code for Zone 5 (Default=05**)**
P1116E 4+2 Alarm Code for Zone 6 (Default=06)
P1117E 4+2 Alarm Code for Zone 7 (Default=07)
P1118E 4+2 Alarm Code for Zone 8 (Default=08)
P1119E 4+2 Alarm Code for Zone 9 (Default=09)
P1120E 4+2 Alarm Code for Zone 10 (Default=10)
P1121E 4+2 Alarm Code for Zone 11 (Default=01)
P1122E 4+2 Alarm Code for Zone 12 (Default=02)
P1123E 4+2 Alarm Code for Zone 13 (Default=03)
P1124E 4+2 Alarm Code for Zone 14 (Default=04)
P1125E 4+2 Alarm Code for Zone 15 (Default=05)
P1126E 4+2 Alarm Code for Zone 16 (Default=06)
P1127E 4+2 Alarm Code for Zone 17 (Default=07)
P1128E 4+2 Alarm Code for Zone 18 (Default=08)

P1129E 4+2 Alarm Code for Zone 19 (Default=09)
P1130E 4+2 Alarm Code for Zone 20 (Default=10)
P1131E 4+2 Alarm Code for Zone 21 (Default=01**)**
P1132E 4+2 Alarm Code for Zone 22 (Default=02)
P1133E 4+2 Alarm Code for Zone 23 (Default=03)
P1134E 4+2 Alarm Code for Zone 24 (Default=04)
P1135E 4+2 Alarm Code for Zone 25 (Default=05)
P1136E 4+2 Alarm Code for Zone 26 (Default=06)
P1137E 4+2 Alarm Code for Zone 27 (Default=07)
P1138E 4+2 Alarm Code for Zone 28 (Default=08)
P1139E 4+2 Alarm Code for Zone 29 (Default=09)
P1140E 4+2 Alarm Code for Zone 30 (Default=10)
P1141E 4+2 Alarm Code for Zone 31 (Default=01)
P1142E 4+2 Alarm Code for Zone 32 (Default=02)
P1143E 4+2 Alarm Code for Zone 33 (Default=03)
P1144E 4+2 Alarm Code for Zone 34 (Default=04)
P1145E 4+2 Alarm Code for Zone 35 (Default=05)
P1146E 4+2 Alarm Code for Zone 36 (Default=06)
P1147E 4+2 Alarm Code for Zone 37 (Default=07)
P1148E 4+2 Alarm Code for Zone 38 (Default=08)
P1149E 4+2 Alarm Code for Zone 39 (Default=09)
P1150E 4+2 Alarm Code for Zone 40 (Default=10)
P1151E 4+2 Alarm Code for Zone 41 (Default=01)
P1152E 4+2 Alarm Code for Zone 42 (Default=02)
P1153E 4+2 Alarm Code for Zone 43 (Default=03)
P1154E 4+2 Alarm Code for Zone 44 (Default=04)
P1155E 4+2 Alarm Code for Zone 45 (Default=05)
P1156E 4+2 Alarm Code for Zone 46 (Default=06)
P1157E 4+2 Alarm Code for Zone 47 (Default=07)
P1158E 4+2 Alarm Code for Zone 48 (Default=08)
P1159E 4+2 Alarm Code for Zone 49 (Default=09)
P1160E 4+2 Alarm Code for Zone 50 (Default=10)
P1161E 4+2 Alarm Code for Zone 51 (Default=01)
P1162E 4+2 Alarm Code for Zone 52 (Default=02)
P1163E 4+2 Alarm Code for Zone 53 (Default=03)
P1164E 4+2 Alarm Code for Zone 54 (Default=04)
P1165E 4+2 Alarm Code for Zone 55 (Default=05)
P1166E 4+2 Alarm Code for Zone 56 (Default=06)
P1167E 4+2 Alarm Code for Zone 57 (Default=07)
P1168E 4+2 Alarm Code for Zone 58 (Default=08)
P1169E 4+2 Alarm Code for Zone 59 (Default=09)
P1170E 4+2 Alarm Code for Zone 60 (Default=10)
P1171E 4+2 Alarm Code for Zone 61 (Default=01)
P1172E 4+2 Alarm Code for Zone 62 (Default=02)
P1173E 4+2 Alarm Code for Zone 63 (Default=03)
P1174E 4+2 Alarm Code for Zone 64 (Default=04)

System Tamper 4+2 Reporting Code

P1175E 4+2 Alarm Code for System Tamper (Default=86) Page 62

System Tamper Restore 4+2 Reporting Code

P1176E 4+2 Alarm Code for System Tamper Restore (Default=87) Page 62

Armed by “Arm” Button 4+2 Reporting Code

P1177E 4+2 Arm by “Arm” Button or Key-switch Code (Default=81) Page 62

Single button or key-switch disarm 4+2 Reporting Code

P1178E 4+2 Disarm by Arm or Stay Button or Key-switch (Default=83) Page 62

Stay Mode Arming 4+2 Reporting Code

P1179E 4+2 Stay Mode Arming Code (Default=82) Page 62

Zone Alarm Restore 4+2 Reporting Code

P1181E 4+2 Alarm Restore Code for Zone 1 (Default=11) Page 62
P1182E 4+2 Alarm Restore Code for Zone 2 (Default=12)
P1183E 4+2 Alarm Restore Code for Zone 3 (Default=13)
P1184E 4+2 Alarm Restore Code for Zone 4 (Default=14)

P1185E 4+2 Alarm Restore Code for Zone 5 (Default=15)
P1186E 4+2 Alarm Restore Code for Zone 6 (Default=16)
P1187E 4+2 Alarm Restore Code for Zone 7 (Default=17)
P1188E 4+2 Alarm Restore Code for Zone 8 (Default=18)
P1189E 4+2 Alarm Restore Code for Zone 9 (Default=19)
P1190E 4+2 Alarm Restore Code for Zone 10 (Default=20)
P1191E 4+2 Alarm Restore Code for Zone 11 (Default=11)
P1192E 4+2 Alarm Restore Code for Zone 12 (Default=12)
P1193E 4+2 Alarm Restore Code for Zone 13 (Default=13)
P1194E 4+2 Alarm Restore Code for Zone 14 (Default=14)
P1195E 4+2 Alarm Restore Code for Zone 15 (Default=15)
P1196E 4+2 Alarm Restore Code for Zone 16 (Default=16)
P1197E 4+2 Alarm Restore Code for Zone 17 (Default=17)
P1198E 4+2 Alarm Restore Code for Zone 18 (Default=18)
P1199E 4+2 Alarm Restore Code for Zone 19 (Default=19)
P1200E 4+2 Alarm Restore Code for Zone 20 (Default=20)
P1201E 4+2 Alarm Restore Code for Zone 21 (Default=11)
P1202E 4+2 Alarm Restore Code for Zone 22 (Default=12)
P1203E 4+2 Alarm Restore Code for Zone 23 (Default=13)
P1204E 4+2 Alarm Restore Code for Zone 24 (Default=14)
P1205E 4+2 Alarm Restore Code for Zone 25 (Default=15)
P1206E 4+2 Alarm Restore Code for Zone 26 (Default=16)
P1207E 4+2 Alarm Restore Code for Zone 27 (Default=17)
P1208E 4+2 Alarm Restore Code for Zone 28 (Default=18)
P1209E 4+2 Alarm Restore Code for Zone 29 (Default=19)
P1210E 4+2 Alarm Restore Code for Zone 30 (Default=20)
P1211E 4+2 Alarm Restore Code for Zone 31 (Default=11)
P1212E 4+2 Alarm Restore Code for Zone 32 (Default=12)
P1213E 4+2 Alarm Restore Code for Zone 33 (Default=13)
P1214E 4+2 Alarm Restore Code for Zone 34 (Default=14)
P1215E 4+2 Alarm Restore Code for Zone 35 (Default=15)
P1216E 4+2 Alarm Restore Code for Zone 36 (Default=16)
P1217E 4+2 Alarm Restore Code for Zone 37 (Default=17)
P1218E 4+2 Alarm Restore Code for Zone 38 (Default=18)
P1219E 4+2 Alarm Restore Code for Zone 39 (Default=19)
P1220E 4+2 Alarm Restore Code for Zone 40 (Default=20)
P1221E 4+2 Alarm Restore Code for Zone 41 (Default=11)
P1222E 4+2 Alarm Restore Code for Zone 42 (Default=12)
P1223E 4+2 Alarm Restore Code for Zone 43 (Default=13)
P1224E 4+2 Alarm Restore Code for Zone 44 (Default=14)
P1225E 4+2 Alarm Restore Code for Zone 45 (Default=15)
P1226E 4+2 Alarm Restore Code for Zone 46 (Default=16)
P1227E 4+2 Alarm Restore Code for Zone 47 (Default=17)
P1228E 4+2 Alarm Restore Code for Zone 48 (Default=18)
P1229E 4+2 Alarm Restore Code for Zone 49 (Default=19)
P1230E 4+2 Alarm Restore Code for Zone 50 (Default=20)
P1231E 4+2 Alarm Restore Code for Zone 51 (Default=11)
P1232E 4+2 Alarm Restore Code for Zone 52 (Default=12)
P1233E 4+2 Alarm Restore Code for Zone 53 (Default=13)
P1234E 4+2 Alarm Restore Code for Zone 54 (Default=14)
P1235E 4+2 Alarm Restore Code for Zone 55 (Default=15)
P1236E 4+2 Alarm Restore Code for Zone 56 (Default=16)
P1237E 4+2 Alarm Restore Code for Zone 57 (Default=17)
P1238E 4+2 Alarm Restore Code for Zone 58 (Default=18)
P1239E 4+2 Alarm Restore Code for Zone 59 (Default=19)
P1240E 4+2 Alarm Restore Code for Zone 60 (Default=20)
P1241E 4+2 Alarm Restore Code for Zone 61 (Default=11)
P1242E 4+2 Alarm Restore Code for Zone 62 (Default=12)
P1243E 4+2 Alarm Restore Code for Zone 63 (Default=13)
P1244E 4+2 Alarm Restore Code for Zone 64 (Default=14)

Low Battery 4+2 Reporting Codes

P1245E Low Battery 4+2 Code (Default=94)
P1246E Low Battery Restore 4+2 Code (Default=95)

Mains Failure 4+2 Restore Codes

P1247E Mains Failure 4+2 Code (Default=96) Page 62
P1248E Mains Failure restore 4+2 Code (Default=97)

Duress Alarm 4+2 Reporting Code

P1249E 4+2 Duress Alarm Code (Default=85) Page 62

Zone Bypassed 4+2 Reporting Code

P1251E 4+2 Bypass Message for Zone 1 (Default=21) Page 62
P1252E 4+2 Bypass Message for Zone 2 (Default=22)
P1253E 4+2 Bypass Message for Zone 3 (Default=23)
P1254E 4+2 Bypass Message for Zone 4 (Default=24)
P1255E 4+2 Bypass Message for Zone 5 (Default=25)
P1256E 4+2 Bypass Message for Zone 6 (Default=26)
P1257E 4+2 Bypass Message for Zone 7 (Default=27)
P1258E 4+2 Bypass Message for Zone 8 (Default=28)
P1259E 4+2 Bypass Message for Zone 9 (Default=29)
P1260E 4+2 Bypass Message for Zone 10 (Default=30)
P1261E 4+2 Bypass Message for Zone 11 (Default=21)
P1262E 4+2 Bypass Message for Zone 12 (Default=22)
P1263E 4+2 Bypass Message for Zone 13 (Default=23)
P1264E 4+2 Bypass Message for Zone 14 (Default=24)
P1265E 4+2 Bypass Message for Zone 15 (Default=25)
P1266E 4+2 Bypass Message for Zone 16 (Default=26)
P1267E 4+2 Bypass Message for Zone 17 (Default=27)
P1268E 4+2 Bypass Message for Zone 18 (Default=28)
P1269E 4+2 Bypass Message for Zone 19 (Default=29)
P1270E 4+2 Bypass Message for Zone 20 (Default=30)
P1271E 4+2 Bypass Message for Zone 21 (Default=21)
P1272E 4+2 Bypass Message for Zone 22 (Default=22)
P1273E 4+2 Bypass Message for Zone 23 (Default=23)
P1274E 4+2 Bypass Message for Zone 24 (Default=24)
P1275E 4+2 Bypass Message for Zone 25 (Default=25)
P1276E 4+2 Bypass Message for Zone 26 (Default=26)
P1277E 4+2 Bypass Message for Zone 27 (Default=27)
P1278E 4+2 Bypass Message for Zone 28 (Default=28)
P1279E 4+2 Bypass Message for Zone 29 (Default=29)
P1280E 4+2 Bypass Message for Zone 30 (Default=30)
P1281E 4+2 Bypass Message for Zone 31 (Default=21)
P1282E 4+2 Bypass Message for Zone 32 (Default=22)
P1283E 4+2 Bypass Message for Zone 33 (Default=23)
P1284E 4+2 Bypass Message for Zone 34 (Default=24)
P1285E 4+2 Bypass Message for Zone 35 (Default=25)
P1286E 4+2 Bypass Message for Zone 36 (Default=26)
P1287E 4+2 Bypass Message for Zone 37 (Default=27)
P1288E 4+2 Bypass Message for Zone 38 (Default=28)
P1289E 4+2 Bypass Message for Zone 39 (Default=29)
P1290E 4+2 Bypass Message for Zone 40 (Default=30)
P1291E 4+2 Bypass Message for Zone 41 (Default=21)
P1292E 4+2 Bypass Message for Zone 42 (Default=22)
P1293E 4+2 Bypass Message for Zone 43 (Default=23)
P1294E 4+2 Bypass Message for Zone 44 (Default=24)
P1295E 4+2 Bypass Message for Zone 45 (Default=25)
P1296E 4+2 Bypass Message for Zone 46 (Default=26)
P1297E 4+2 Bypass Message for Zone 47 (Default=27)
P1298E 4+2 Bypass Message for Zone 48 (Default=28)
P1299E 4+2 Bypass Message for Zone 49 (Default=29)
P1300E 4+2 Bypass Message for Zone 50 (Default=30)
P1301E 4+2 Bypass Message for Zone 51 (Default=21)
P1302E 4+2 Bypass Message for Zone 52 (Default=22)
P1303E 4+2 Bypass Message for Zone 53 (Default=23)
P1304E 4+2 Bypass Message for Zone 54 (Default=24)
P1305E 4+2 Bypass Message for Zone 55 (Default=25)
P1306E 4+2 Bypass Message for Zone 56 (Default=26)
P1307E 4+2 Bypass Message for Zone 57 (Default=27)

P1308E 4+2 Bypass Message for Zone 58 (Default=28)
P1309E 4+2 Bypass Message for Zone 59 (Default=29)
P1310E 4+2 Bypass Message for Zone 60 (Default=30)
P1311E 4+2 Bypass Message for Zone 61 (Default=21)
P1312E 4+2 Bypass Message for Zone 62 (Default=22)
P1313E 4+2 Bypass Message for Zone 63 (Default=23)
P1314E 4+2 Bypass Message for Zone 64 (Default=24)

Panic Alarm 4+2 Reporting Codes

P1315E Manual Panic Alarm 4+2 Code (Default=88) Page 62
P1316E Manual Panic Alarm Restore 4+2 Code (Default=89)

Fire Alarm 4+2 Reporting Codes

P1317E Manual Fire Alarm 4+2 Code (Default=90) Page 62
P1318E Manual Fire Alarm Restore 4+2 Code (Default=91)

Medical Alarm 4+2 Restore Codes

P1319E Manual Medical Alarm 4+2 Code (Default=92) Page 62
P1320E Manual Medical Alarm Restore 4+2 Code (Default=93)

Zone Bypassed 4+2 Restore Code

P1321E 4+2 Bypass Restore Message for Zone 1 (Default=31) Page 62
P1322E 4+2 Bypass Restore Message for Zone 2 (Default=32)
P1323E 4+2 Bypass Restore Message for Zone 3 (Default=33)
P1324E 4+2 Bypass Restore Message for Zone 4 (Default=34)
P1325E 4+2 Bypass Restore Message for Zone 5 (Default=35)
P1326E 4+2 Bypass Restore Message for Zone 6 (Default=36)
P1327E 4+2 Bypass Restore Message for Zone 7 (Default=37)
P1328E 4+2 Bypass Restore Message for Zone 8 (Default=38)
P1329E 4+2 Bypass Restore Message for Zone 9 (Default=39)
P1330E 4+2 Bypass Restore Message for Zone 10 (Default=40)
P1331E 4+2 Bypass Restore Message for Zone 11 (Default=31)
P1332E 4+2 Bypass Restore Message for Zone 12 (Default=32)
P1333E 4+2 Bypass Restore Message for Zone 13 (Default=33)
P1334E 4+2 Bypass Restore Message for Zone 14 (Default=34)
P1335E 4+2 Bypass Restore Message for Zone 15 (Default=35)
P1336E 4+2 Bypass Restore Message for Zone 16 (Default=36)
P1337E 4+2 Bypass Restore Message for Zone 17 (Default=37)
P1338E 4+2 Bypass Restore Message for Zone 18 (Default=38)
P1339E 4+2 Bypass Restore Message for Zone 19 (Default=39)
P1340E 4+2 Bypass Restore Message for Zone 20 (Default=40)
P1341E 4+2 Bypass Restore Message for Zone 21 (Default=31)
P1342E 4+2 Bypass Restore Message for Zone 22 (Default=32)
P1343E 4+2 Bypass Restore Message for Zone 23 (Default=33)
P1344E 4+2 Bypass Restore Message for Zone 24 (Default=34)
P1345E 4+2 Bypass Restore Message for Zone 25 (Default=35)
P1346E 4+2 Bypass Restore Message for Zone 26 (Default=36)
P1347E 4+2 Bypass Restore Message for Zone 27 (Default=37)
P1348E 4+2 Bypass Restore Message for Zone 28 (Default=38)
P1349E 4+2 Bypass Restore Message for Zone 29 (Default=39)
P1350E 4+2 Bypass Restore Message for Zone 30 (Default=40)
P1351E 4+2 Bypass Restore Message for Zone 31 (Default=31)
P1352E 4+2 Bypass Restore Message for Zone 32 (Default=32)
P1353E 4+2 Bypass Restore Message for Zone 33 (Default=33)
P1354E 4+2 Bypass Restore Message for Zone 34 (Default=34)
P1355E 4+2 Bypass Restore Message for Zone 35 (Default=35)
P1356E 4+2 Bypass Restore Message for Zone 36 (Default=36)
P1357E 4+2 Bypass Restore Message for Zone 37 (Default=37)
P1358E 4+2 Bypass Restore Message for Zone 38 (Default=38)
P1359E 4+2 Bypass Restore Message for Zone 39 (Default=39)
P1360E 4+2 Bypass Restore Message for Zone 40 (Default=40)
P1361E 4+2 Bypass Restore Message for Zone 41 (Default=31)
P1362E 4+2 Bypass Restore Message for Zone 42 (Default=32)
P1363E 4+2 Bypass Restore Message for Zone 43 (Default=33)
P1364E 4+2 Bypass Restore Message for Zone 44 (Default=34)
P1365E 4+2 Bypass Restore Message for Zone 45 (Default=35)
P1366E 4+2 Bypass Restore Message for Zone 46 (Default=36)

P1367E 4+2 Bypass Restore Message for Zone 47 (Default=37)
P1368E 4+2 Bypass Restore Message for Zone 48 (Default=38)
P1369E 4+2 Bypass Restore Message for Zone 49 (Default=39)
P1370E 4+2 Bypass Restore Message for Zone 50 (Default=40)
P1371E 4+2 Bypass Restore Message for Zone 51 (Default=31)
P1372E 4+2 Bypass Restore Message for Zone 52 (Default=32)
P1373E 4+2 Bypass Restore Message for Zone 53 (Default=33)
P1374E 4+2 Bypass Restore Message for Zone 54 (Default=34)
P1375E 4+2 Bypass Restore Message for Zone 55 (Default=35)
P1376E 4+2 Bypass Restore Message for Zone 56 (Default=36)
P1377E 4+2 Bypass Restore Message for Zone 57 (Default=37)
P1378E 4+2 Bypass Restore Message for Zone 58 (Default=38)
P1379E 4+2 Bypass Restore Message for Zone 59 (Default=39)
P1380E 4+2 Bypass Restore Message for Zone 60 (Default=40)
P1381E 4+2 Bypass Restore Message for Zone 61 (Default=31)
P1382E 4+2 Bypass Restore Message for Zone 62 (Default=32)
P1383E 4+2 Bypass Restore Message for Zone 63 (Default=33)
P1384E 4+2 Bypass Restore Message for Zone 64 (Default=34)

Armed by User # 4+2 Reporting Code

P1391E 4+2 Arm Code for User 1 (Default=41)
P1392E 4+2 Arm Code for User 2 (Default=42)
P1393E 4+2 Arm Code for User 3 (Default=43)
P1394E 4+2 Arm Code for User 4 (Default=44)
P1395E 4+2 Arm Code for User 5 (Default=45)
P1396E 4+2 Arm Code for User 6 (Default=46)
P1397E 4+2 Arm Code for User 7 (Default=47**)**
P1398E 4+2 Arm Code for User 8 (Default=48)
P1399E 4+2 Arm Code for User 9 (Default=49)
P1400E 4+2 Arm Code for User 10 (Default=50)
P1401E 4+2 Arm Code for User 11 (Default=51)
P1402E 4+2 Arm Code for User 12 (Default=52)
P1403E 4+2 Arm Code for User 13 (Default=53)
P1404E 4+2 Arm Code for User 14 (Default=54)
P1405E 4+2 Arm Code for User 15 (Default=55)
P1406E 4+2 Arm Code for User 16 (Default=56)
P1407E 4+2 Arm Code for User 17 (Default=57)
P1408E 4+2 Arm Code for User 18 (Default=58)
P1409E 4+2 Arm Code for User 19 (Default=59)
P1410E 4+2 Arm Code for User 20 (Default=60)
P1411E 4+2 Arm Code for User 21 (Default=41)
P1412E 4+2 Arm Code for User 22 (Default=42)
P1413E 4+2 Arm Code for User 23 (Default=43)
P1414E 4+2 Arm Code for User 24 (Default=44)
P1415E 4+2 Arm Code for User 25 (Default=45)
P1416E 4+2 Arm Code for User 26 (Default=46)
P1417E 4+2 Arm Code for User 27 (Default=47**)**
P1418E 4+2 Arm Code for User 28 (Default=48)
P1419E 4+2 Arm Code for User 29 (Default=49)
P1420E 4+2 Arm Code for User 30 (Default=50)
P1421E 4+2 Arm Code for User 31 (Default=51)
P1422E 4+2 Arm Code for User 32 (Default=52)
P1423E 4+2 Arm Code for User 33 (Default=53)
P1424E 4+2 Arm Code for User 34 (Default=54)
P1425E 4+2 Arm Code for User 35 (Default=55)
P1426E 4+2 Arm Code for User 36 (Default=56)
P1427E 4+2 Arm Code for User 37 (Default=57)
P1428E 4+2 Arm Code for User 38 (Default=58)
P1429E 4+2 Arm Code for User 39 (Default=59)
P1430E 4+2 Arm Code for User 40 (Default=60)
P1431E 4+2 Arm Code for User 41 (Default=41)
P1432E 4+2 Arm Code for User 42 (Default=42)
P1433E 4+2 Arm Code for User 43 (Default=43)
P1434E 4+2 Arm Code for User 44 (Default=44)
P1435E 4+2 Arm Code for User 45 (Default=45)
P1436E 4+2 Arm Code for User 46 (Default=46)

P1437E 4+2 Arm Code for User 47 (Default=47)
P1438E 4+2 Arm Code for User 48 (Default=48)
P1439E 4+2 Arm Code for User 49 (Default=49)
P1440E 4+2 Arm Code for User 50 (Default=50)
P1441E 4+2 Arm Code for User 51 (Default=51)
P1442E 4+2 Arm Code for User 52 (Default=52)
P1443E 4+2 Arm Code for User 53 (Default=53)
P1444E 4+2 Arm Code for User 54 (Default=54)
P1445E 4+2 Arm Code for User 55 (Default=55)
P1446E 4+2 Arm Code for User 56 (Default=56)
P1447E 4+2 Arm Code for User 57 (Default=57**)**
P1448E 4+2 Arm Code for User 58 (Default=58)
P1449E 4+2 Arm Code for User 59 (Default=59)
P1450E 4+2 Arm Code for User 60 (Default=60)
P1451E 4+2 Arm Code for User 61 (Default=41)
P1452E 4+2 Arm Code for User 62 (Default=42)
P1453E 4+2 Arm Code for User 63 (Default=43)
P1454E 4+2 Arm Code for User 64 (Default=44)
P1455E 4+2 Arm Code for User 65 (Default=45)
P1456E 4+2 Arm Code for User 66 (Default=46)
P1457E 4+2 Arm Code for User 67 (Default=47)
P1458E 4+2 Arm Code for User 68 (Default=48)
P1459E 4+2 Arm Code for User 69 (Default=49)
P1460E 4+2 Arm Code for User 70 (Default=50)
P1461E 4+2 Arm Code for User 71 (Default=51)
P1462E 4+2 Arm Code for User 72 (Default=52)
P1463E 4+2 Arm Code for User 73 (Default=53)
P1464E 4+2 Arm Code for User 74 (Default=54)
P1465E 4+2 Arm Code for User 75 (Default=55)
P1466E 4+2 Arm Code for User 76 (Default=56)
P1467E 4+2 Arm Code for User 77 (Default=57**)**
P1468E 4+2 Arm Code for User 78 (Default=58)
P1469E 4+2 Arm Code for User 79 (Default=59)
P1470E 4+2 Arm Code for User 80 (Default=60)
P1471E 4+2 Arm Code for User 81 (Default=41)
P1472E 4+2 Arm Code for User 82 (Default=42)
P1473E 4+2 Arm Code for User 83 (Default=43)
P1474E 4+2 Arm Code for User 84 (Default=44)
P1475E 4+2 Arm Code for User 85 (Default=45)
P1476E 4+2 Arm Code for User 86 (Default=46)
P1477E 4+2 Arm Code for User 87 (Default=47)
P1478E 4+2 Arm Code for User 88 (Default=48)
P1479E 4+2 Arm Code for User 89 (Default=49)
P1480E 4+2 Arm Code for User 90 (Default=50)
P1481E 4+2 Arm Code for User 91 (Default=51)
P1482E 4+2 Arm Code for User 92 (Default=52)
P1483E 4+2 Arm Code for User 93 (Default=53)
P1484E 4+2 Arm Code for User 94 (Default=54)
P1485E 4+2 Arm Code for User 95 (Default=55)
P1486E 4+2 Arm Code for User 96 (Default=56)
P1487E 4+2 Arm Code for User 97 (Default=57)
P1488E 4+2 Arm Code for User 98 (Default=58)
P1489E 4+2 Arm Code for User 99 (Default=59)
P1490E 4+2 Arm Code for User 100 (Default=60)

Disarmed by User # 4+2 Reporting Code

P1491E 4+2 Disarm Code for User 1 (Default=61)
P1492E 4+2 Disarm Code for User 2 (Default=62)
P1493E 4+2 Disarm Code for User 3 (Default=63)
P1494E 4+2 Disarm Code for User 4 (Default=64)
P1495E 4+2 Disarm Code for User 5 (Default=65)
P1496E 4+2 Disarm Code for User 6 (Default=66)
P1497E 4+2 Disarm Code for User 7 (Default=67)
P1498E 4+2 Disarm Code for User 8 (Default=68)
P1499E 4+2 Disarm Code for User 9 (Default=69)
P1500E 4+2 Disarm Code for User 10 (Default=70)

P1501E 4+2 Disarm Code for User 11 (Default=71)
P1502E 4+2 Disarm Code for User 12 (Default=72)
P1503E 4+2 Disarm Code for User 13 (Default=73)
P1504E 4+2 Disarm Code for User 14 (Default=74)
P1505E 4+2 Disarm Code for User 15 (Default=75)
P1506E 4+2 Disarm Code for User 16 (Default=76)
P1507E 4+2 Disarm Code for User 17 (Default=77)
P1508E 4+2 Disarm Code for User 18 (Default=78)
P1509E 4+2 Disarm Code for User 19 (Default=79)
P1510E 4+2 Disarm Code for User 20 (Default=80)
P1511E 4+2 Disarm Code for User 21 (Default=61)
P1512E 4+2 Disarm Code for User 22 (Default=62)
P1513E 4+2 Disarm Code for User 23 (Default=63)
P1514E 4+2 Disarm Code for User 24 (Default=64)
P1515E 4+2 Disarm Code for User 25 (Default=65)
P1516E 4+2 Disarm Code for User 26 (Default=66)
P1517E 4+2 Disarm Code for User 27 (Default=67)
P1518E 4+2 Disarm Code for User 28 (Default=68)
P1519E 4+2 Disarm Code for User 29 (Default=69)
P1520E 4+2 Disarm Code for User 30 (Default=70)
P1521E 4+2 Disarm Code for User 31 (Default=71)
P1522E 4+2 Disarm Code for User 32 (Default=72)
P1523E 4+2 Disarm Code for User 33 (Default=73)
P1524E 4+2 Disarm Code for User 34 (Default=74)
P1525E 4+2 Disarm Code for User 35 (Default=75)
P1526E 4+2 Disarm Code for User 36 (Default=76)
P1527E 4+2 Disarm Code for User 37 (Default=77)
P1528E 4+2 Disarm Code for User 38 (Default=78)
P1529E 4+2 Disarm Code for User 39 (Default=79)
P1530E 4+2 Disarm Code for User 40 (Default=80)
P1531E 4+2 Disarm Code for User 41 (Default=61)
P1532E 4+2 Disarm Code for User 42 (Default=62)
P1533E 4+2 Disarm Code for User 43 (Default=63)
P1534E 4+2 Disarm Code for User 44 (Default=64)
P1535E 4+2 Disarm Code for User 45 (Default=65)
P1536E 4+2 Disarm Code for User 46 (Default=66)
P1537E 4+2 Disarm Code for User 47 (Default=67)
P1538E 4+2 Disarm Code for User 48 (Default=68)
P1539E 4+2 Disarm Code for User 49 (Default=69)
P1540E 4+2 Disarm Code for User 50 (Default=70)
P1541E 4+2 Disarm Code for User 51 (Default=71)
P1542E 4+2 Disarm Code for User 52 (Default=72)
P1543E 4+2 Disarm Code for User 53 (Default=73)
P1544E 4+2 Disarm Code for User 54 (Default=74)
P1545E 4+2 Disarm Code for User 55 (Default=75)
P1546E 4+2 Disarm Code for User 56 (Default=76)
P1547E 4+2 Disarm Code for User 57 (Default=77)
P1548E 4+2 Disarm Code for User 58 (Default=78)
P1549E 4+2 Disarm Code for User 59 (Default=79)
P1550E 4+2 Disarm Code for User 60 (Default=80)
P1551E 4+2 Disarm Code for User 61 (Default=61)
P1552E 4+2 Disarm Code for User 62 (Default=62)
P1553E 4+2 Disarm Code for User 63 (Default=63)
P1554E 4+2 Disarm Code for User 64 (Default=64)
P1555E 4+2 Disarm Code for User 65 (Default=65)
P1556E 4+2 Disarm Code for User 66 (Default=66)
P1557E 4+2 Disarm Code for User 67 (Default=67)
P1558E 4+2 Disarm Code for User 68 (Default=68)
P1559E 4+2 Disarm Code for User 69 (Default=69)
P1560E 4+2 Disarm Code for User 70 (Default=70)
P1561E 4+2 Disarm Code for User 71 (Default=71)
P1562E 4+2 Disarm Code for User 72 (Default=72)
P1563E 4+2 Disarm Code for User 73 (Default=73)
P1564E 4+2 Disarm Code for User 74 (Default=74)
P1565E 4+2 Disarm Code for User 75 (Default=75)

P1566E 4+2 Disarm Code for User 76 (Default=76)
P1567E 4+2 Disarm Code for User 77 (Default=77)
P1568E 4+2 Disarm Code for User 78 (Default=78)
P1569E 4+2 Disarm Code for User 79 (Default=79)
P1570E 4+2 Disarm Code for User 80 (Default=80)
P1571E 4+2 Disarm Code for User 81 (Default=61)
P1572E 4+2 Disarm Code for User 82 (Default=62)
P1573E 4+2 Disarm Code for User 83 (Default=63)
P1574E 4+2 Disarm Code for User 84 (Default=64)
P1575E 4+2 Disarm Code for User 85 (Default=65)
P1576E 4+2 Disarm Code for User 86 (Default=66)
P1577E 4+2 Disarm Code for User 87 (Default=67)
P1578E 4+2 Disarm Code for User 88 (Default=68)
P1579E 4+2 Disarm Code for User 89 (Default=69)
P1580E 4+2 Disarm Code for User 90 (Default=70)
P1581E 4+2 Disarm Code for User 91 (Default=71)
P1582E 4+2 Disarm Code for User 92 (Default=72)
P1583E 4+2 Disarm Code for User 93 (Default=73)
P1584E 4+2 Disarm Code for User 94 (Default=74)
P1585E 4+2 Disarm Code for User 95 (Default=75)
P1586E 4+2 Disarm Code for User 96 (Default=76)
P1587E 4+2 Disarm Code for User 97 (Default=77)
P1588E 4+2 Disarm Code for User 98 (Default=78)
P1589E 4+2 Disarm Code for User 99 (Default=79)
P1590E 4+2 Disarm Code for User 100 (Default=80)

Expander Board AC Fail 4+2 Reporting Code

P1592E 4+2 Expander Board AC Fail (Default=C1) Page 62
P1593E 4+2 Expander Board AC Restore (Default=C2)

Expander Board Battery Low 4+2 Reporting Code

P1594E 4+2 Expander Board Battery Low (Default=D1) Page 62
P1595E 4+2 Expander Board Battery Restore (Default=D2)

Expander Board Comms Fail 4+2 Reporting Code

P1596E 4+2 Expander Board Failure (Default=E1) Page 62
P1597E 4+2 Expander Board Restore (Default=E2)

Expander Board Tamper Alarm 4+2 Reporting Code

P1598E 4+2 Expander Board Tamper Alarm (Default=F1) Page 62
P1599E 4+2 Expander Board Tamper Alarm Restore (Default=F2)

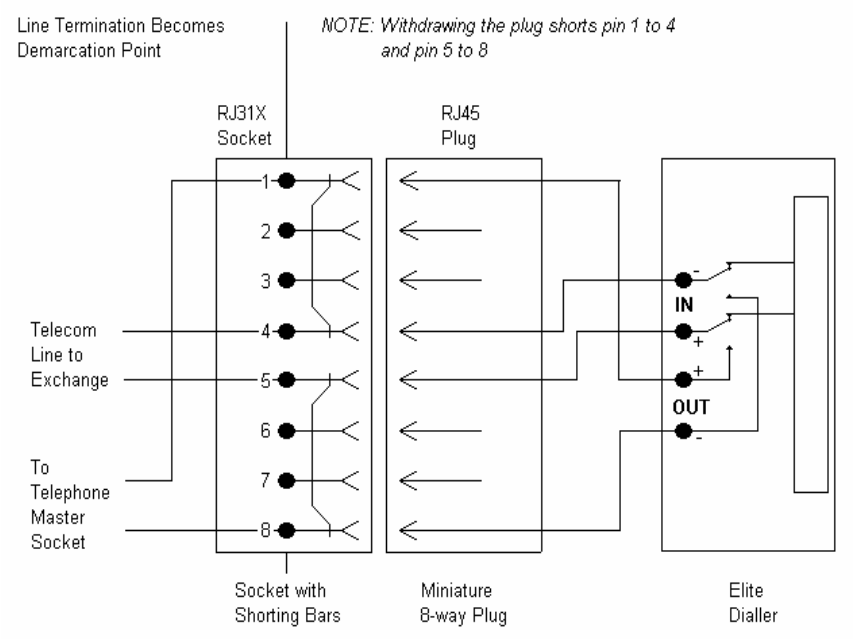
DIALLER INSTALLATION

The dialler facility of the Elite controller has been designed to provide optimum flexibility in the way in which alarm events are reported. This flexibility includes options for reporting to a central monitoring station using Contact ID format, a domestic reporting option using alternating siren tones, a format for reporting alarms to an alpha numeric pager and a powerful speech dialler.

In accordance with the statutory requirements of the Telepermit standards we must bring the following points to your attention;
A readily accessible disconnect device shall be incorporated into the 230V fixed wiring.
In the event of any problem with this device, the by-pass switch should be operated. The user is to then arrange with the installer of the device to make the necessary repairs. Should the matter be reported to Telecom as a wiring fault, and the fault be proven to be due to the alarm panel, a call out charge will be incurred.

Should the Elite control panel require relocation the Telecom connection must be disconnected before the power is disconnected. Similarly when reconnecting the dialler, it is necessary to power up the Elite before connecting the dialler to the Telecom Network.

Connection to the Telecom network should be made in accordance with Access Standards Newsletter #65 dated November 1993. This connection is to be readily accessible to allow disconnection in the event of a fault. An example of this connection method is shown below.



NOTE: ***The telephone line must not enter the cabinet through the same cable entry hole as any 230 volt mains cables. A separate cable entry must be used for 230 volt cabling***

When using one of the knock-outs around the side of the cabinet for supply entry, a suitable bushing must be used where the supply cables pass through a knock-out.

The transmit level from this device is set at a fixed level and because of this there may be circumstances where this device does not give its optimum performance. Before reporting such occurrences as faults, please check the line with a standard Telepermitted telephone, and do not report a fault unless the telephone performance is impaired.

This automatic dialling equipment shall not be set up to make calls to the Telecom "111" Emergency Service

ELITE 64 CONTACT ID CODE SUMMARY

In addition to the programmable Contact ID Event Code assignments defined at P867E - P869E and P571E-P610E there are a number of fixed event codes. The programmable and fixed event codes are all listed in the table below. Associated with the fixed and programmable event codes, there are a number of extension codes, that are also listed below. The extensions list is for your reference only and can not be changed in programming.

Event	Code	Extension	Comment
Zone Alarm	130	001-064	Zone 1-64
Zone Near Alarm	138	001-064	Zone 1-64
Zone Verified Alarm	139	001-064	Zone 1-64
Zone Bypasses	570	001-064	Bypass Zone 1-64
Zone Tamper	137	001-064	Hardwired or Radio Zone Tamper
Radio Zone Supervised Failure	381	001-064	Radio Zone 1-64 Supervise Fail
Sensorwatch Alarm	391	001-064	Zone 1-64
Radio PIR / Reed Switch Battery Low	384	001-064	Zone 1-64
Cabinet Tamper	137	000	Panel Tamper
**Keypad Tamper (Wrong Code)	137	101-108	At keypad 1-8
**Keypad Panic	120	001-008	At keypad 1-8
**Keypad Medical	100	001-008	At keypad 1-8
**Keypad Fire	110	001-008	At keypad 1-8
**Duress Alarm	121	001-008	At keypad 1-8
Arm by "ARM key (shortcut)	408	000	User number zero
Arm by user code	401	001-100	User 1-100
Arm by Radio-key	407	021-100	Radio User 21-100
Arm by Time Zone	403	000	Time Zone arming
Arm by Key-switch	409	001	Key-switch Arm/Disarm KS 1
Arm by Key-switch	409	002	Key-switch Arm/Disarm KS 2
Arm by Up/Download	400	000	
Arm by DTMF remote control	400	000	
Stay Mode Arm by “STAY” button	441	000	Arm by “Stay” Button
Stay Mode Arm by user	441	001-100	User 1-100
Stay Mode Arm by Key-switch	442	001	“Stay” mode Arm by K/S 1
		002	“Stay” mode Arm by K/S 2
Radio-key Panic	120	121-200	Radio User 21-100
Radio-key Battery Low	384	121-200	Radio-key 21-100
System Battery Low	302	000	Control Panel Battery low
Expander Battery Low	338	001 - 002	Expander 1 or 2 battery low
Mains Fail (AC)	301	000	230v mains to control panel lost
Expander Mains (AC) Fail	342	001 - 002	Expander 1 or 2 AC Fail
Expander Module Fail	333	001 - 002	Expander 1 or 2 Fail
Expander Module Tamper	341	001 - 002	Expander 1 or 2 Tamper
12V Supply Fail	312	000	12V Fuse F1 or F2 blown
TEST Calls	602	000	24 hour test
Phone Line Failure	351	000	Reported when line is restored
RF Interference Alarm	344	000	RF signal blocked for >30 seconds

** - Note: On some versions of the panel the keypad number is not sent (ie Extension =“000”) to satisfy some monitoring companies